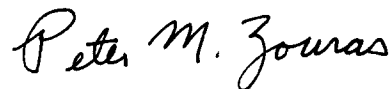


ACTUARIAL CERTIFICATION

This report on the military retirement system as of September 30, 2001, has been prepared in accordance with generally accepted actuarial principles and practices. In preparing the report, I have relied upon information maintained by the Office of the Secretary of Defense regarding plan provisions, assets, and participants.

The valuation was performed using all actuarial assumptions and methods approved by the DoD Retirement Board of Actuaries. The decrements used in the valuation are based on actual experience under the military retirement system. It was assumed that mortality would improve during the projection period. The improvement factors were based on Social Security data (2000 Trustees' Report, Alternative II-B) since it was decided that the mortality improvement anticipated for the Social Security population would be applicable to the military population. The economic assumptions included an annual 3% rate of inflation, a 3.5% annual basic pay scale increase, and a 6.25% annual investment return.

In my opinion, the present values included in this report have been estimated on the basis of actuarial assumptions that are reasonable in the aggregate. The projections and actuarial present values included in the report reflect my best estimate of the anticipated experience under the plan.



Peter M. Zouras
Enrolled Actuary No. 99-5314
DoD Office of the Actuary
1555 Wilson Boulevard
Suite 701
Arlington, VA 22209
(703) 696-7410
Email: zouraspm@osd.pentagon.mil

SUMMARY OF CHANGES FOR THE SEPTEMBER 30, 2001, VALUATION

CHANGES IN ACTUARIAL ASSUMPTIONS

At its August 2001 meeting, the DoD Retirement Board of Actuaries approved the following changes for the September 30, 2001 valuation.

Active Duty Rates

The Board approved a new set of rates for active duty members. The new rates include a number of changes: expanding and updating the experience period, the correction of an error in the prior rates, and other methodological enhancements. The new rates decreased the full-time normal cost percent (NCP) by 1.4 percentage-points. This change produced a \$5 billion actuarial gain to the Fund.

Nondisabled Death and Other Loss Rates

The Office of the Actuary proposed and the Board accepted a new set of death and other loss rates for nondisabled retirees. The new rates increased the full-time NCP by 0.9 percentage-points, and the part-time NCP by 0.4 percentage points. This change led to a \$22.4 billion loss to the Fund.

Corrections and Updates

The Board approved several minor adjustments to the methodology for creating the census input file and to the programming used in the actuarial projection model. The Board also approved the correction and update of factors used to model the Veterans Administration (VA) offset to military retired pay, various Survivor Benefit Plan (SBP) factors, and improvement of the handling of Dependency and Indemnity Compensation (DIC) payments for survivors of service members who die while serving on active duty. The census input file and programming changes had no effect on the NCPs. The changes to the VA offset, SBP factors, and DIC lowered the full-time NCP by 2.4 percentage points, and the part-time NCP by 0.1 percentage points. These changes resulted in a \$15.8 billion gain to the Fund.

CHANGES IN BENEFITS

During FY 2001, Congress enacted a new pay table as part of the effort to increase and re-structure military compensation. In FY 2002, Congress enacted legislation retroactive to September 10, 2001 giving survivors of service members who die in the line of duty full SBP benefits.

July 1, 2001 Pay Table

The effect of the new pay table was to increase the full-time NCP by 0.1 percentage points. It had no impact on the part-time NCP. This produced a \$1.0 billion loss to the Fund.

Death on Active SBP Benefit

This had no impact on the full- or part-time NCPs. It produced a \$28.0 million loss to the Fund.

30 Year Paid-up SBP

The Board approved the implementation of the paid-up SBP provision, described on page A-5 of Appendix A, in this year's valuation. The effect of the provision raised the full-time NCP by 0.1 percentage points and had no effect on the part-time NCP. It produced a \$2.4 billion loss to the Fund.

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VALUATION OF THE MILITARY RETIREMENT SYSTEM

Introduction

The military retirement system provides benefits for retirement from active duty and from the reserves, disability retirement benefits, and optional survivor coverage. A detailed description of current benefits can be found in Appendix A, and a history of the system is in Appendix B.

Public Law 98-94 (currently Chapter 74 of Title 10, U.S.C.) established an aggregate entry-age normal cost funding method for the military retirement system starting October 1, 1984. Under this law, DoD pays the normal cost of the system and the Treasury Department makes payments from general revenues to amortize the unfunded liability, including any gains or losses that have arisen from assumption or benefit changes, or from assumed experience differing from actual experience.

This law also established an independent three-member DoD Retirement Board of Actuaries, appointed by the President. The Board is required to review valuations of the military retirement system, to determine the method of amortizing unfunded liabilities, to report annually to the Secretary of Defense, and to report to the President and the Congress on the status of the fund at least every four years. The DoD Office of the Actuary provides all technical and administrative support to the Board.

The terms of the Board members are fifteen years and a member can be removed only for misconduct or failure to perform the duties of the office. The current Board members are John H. Grady (Chairman), Richard G. Schreitmueller, and Marsha Bera-Morris. The DoD Chief Actuary is the Executive Secretary for the Board.

Military retired pay is based on “basic pay.” This is the principal element of military compensation that all members receive; but it is not analogous, for comparative purposes, to private or public sector salaries. Reasonable comparisons can be made, however, to Basic Military Compensation (BMC). BMC is received by all members and is the sum of basic pay, the quarters allowance (either cash or in kind), a subsistence allowance (either cash or in kind), and the Federal tax advantage accruing to allowances since they are not subject to Federal income tax. Consequently, comparisons of military retired pay to other pension systems should recognize the relationship to BMC rather than to basic pay only. Appendix A contains a more complete description of this topic.

Valuation Data and Procedure

The valuation input data were extracted from files maintained at the Defense Manpower Data Center. Data on individual retirees and survivors came from official files submitted by the Defense Finance and Accounting Service (DFAS). These data files were aggregated and edited, and a very small adjustment (less than .01 percent) was made to the survivor number and net pay amount to agree with official totals supplied by DFAS. Reserve data were obtained from the Reserve Component Common Personnel Data System, the official source for all reserve strengths and statistics.

Active duty data came from files provided by the four military personnel centers, and these data were edited and adjusted by less than .1 percent to agree with official totals supplied by the Comptroller. Dollar amounts included the January 1, 2002, pay raise for active duty and reserve personnel. These totals are summarized in Table 1.

TABLE 1

INITIAL ACCOUNTING FIGURES AS OF SEPTEMBER 30, 2001

Total Active Duty Personnel + Full-Time Active Duty Reservists	1,437,638
Total Monthly Basic Pay	\$3.22 billion
Total Selected Drilling Reservists	803,251
Total Monthly Basic Pay	\$.36 billion
Total Number of Nondisability Retirees	1,619,019
Total Monthly Retired Pay	\$2.60 billion
Total Number of Disability Retirees	98,406
Total Monthly Retired Pay	\$.11 billion
Total Number of Surviving Families	261,296
Total Monthly Survivor Annuities	\$.17 billion

Population and pay projections are generated by an actuarial projection model (GORGO). For use in this model, the data on active duty personnel and drilling reservists are grouped into "cells" by age and number of years of service. Each cell contains the number and the average basic pay for personnel with that particular combination of age and length of service. Data on the retired population and surviving families are grouped into cells by age, and each cell contains the number and total net annualized retired pay or survivor annuity.

Separate data arrays are maintained in GORGO for each of the population categories listed in Table 2. These data are displayed in Appendix C.

In GORGO, these starting populations are projected year by year into the future. Each year personnel are moved from one population category to another (e.g., from active to retired, or dropped from the system altogether) by means of decrement rates such as withdrawal, nondisability retirement, temporary disability, permanent disability, transfer, death with and without survivors, etc. Basic pay scale increases are 3.5 percent per year and basic pay is also increased by individual promotion and longevity increases. Retired pay and survivor annuities are increased by cost-of-living adjustments (COLAs) of 3.0 percent per year for retirees and survivors who receive a full COLA. At the end of each year, the number of people and the amounts paid in basic pay and benefits are saved, and the population is aged. After 100 years, when none of the current active or retired personnel are left in the system, the present values of the series of future benefit payments and future basic pay outlays are determined, using the valuation interest rate of 6.25 percent per year. Because no new entrants come into the system, the projection is said to be "closed group."

There is also an option in GORGO for an "open group" projection in which new entrants are added each year to meet projected end-strengths. Detailed results of an open group projection of the military retirement system appear in Appendix K. Appendix L shows what these results are without reservists.

An open group projection appears later in this text (Table 9). This projection, which shows the past and projected flow of plan assets, includes the total basic payroll over the next 100 years, the normal cost contributions, payments to amortize the unfunded liability, investment income, fund disbursements, and the fund balance. All of these items are discussed in detail throughout the text of this report.

TABLE 2
GORGO POPULATION CATEGORIES

1. Active duty populations and basic pay
 - a. Officers
 - b. Enlistees
2. Selected reservist populations and basic pay
 - a. Officers
 - b. Enlistees
3. Retiree populations and retired pay
 - a. Nondisabled officers (no reservists)
 - b. Nondisabled enlistees (no reservists)
 - c. Reserve officers
 - d. Reserve enlistees
 - e. Disabled officers
 - f. Disabled enlistees
4. Surviving families in a survivor benefit plan and total annuities
 - a. Retired Serviceman's Family Protection Plan
 - b. Survivor Benefit Plan
 - c. Reserve Component Survivor Benefit Plan
 - d. Death on active duty supplement to VA
 - e. Minimum income
5. Typical new-entrant cohort
 - a. Officers
 - b. Enlistees

Economic assumptions, i.e., the annual rate of inflation, the annual basic pay scale increases, and the annual valuation interest rate, were decided upon by the DoD Board of Actuaries after extensive analysis of past trends. A discussion of these trends and other considerations is contained in Appendix D.

The decrement rates and other non-economic assumptions can be categorized as follows:

1. Active duty decrement rates
2. Retiree and survivor decrement rates
3. Drilling reserve decrement rates
4. Internal computer program parameters
5. Other rates (mortality improvement)

In general, the decrement rates and GORGO parameters are based on military-specific experience. The rates and descriptions of how they were derived appear in Appendices G through J. The internal computer program parameters, dealing with such matters as the survivor benefit elections, premium deductions, and member/beneficiary age differences, are described in Appendix F.

Assets

The assets of the military retirement fund are invested in special issue Treasury obligations bearing interest at rates determined by the Secretary of the Treasury taking into consideration current market yields for outstanding marketable U.S. obligations of comparable maturities. Currently, each security issued to the fund “mirrors” a security that has been issued to the public, i.e., it has the same maturity date and coupon rate. The special issue security that is mirrored may have been issued recently, or at any time in the past. Under current procedures adopted by Treasury, the investment manager is permitted to redeem long-term special issue securities at any time before maturity for their fair market value, which is based on the bid price for the public issue with the same maturity date and coupon rate.

For purposes of determining the unfunded liability, the assets of the fund are valued using the amortized cost method. Under this method, the yield to maturity of a security valued at any point in time is equal to the yield to maturity at the time of purchase. In the valuation of the military retirement system, the amortized cost value is referred to as the “actuarial value of assets.” The actuarial value of assets is determined by amortizing premium and discount over the life of the securities. The total investment return includes both the interest coupons received and the change in the amortized cost value during the year. The actuarial value of assets used in the determination of the unfunded liability includes the “accrued interest,” which is the amount of the next semiannual interest coupon payment that has accrued since the date of the last coupon payment. The amount of the “accrued interest” is determined by multiplying the coupon

payment by the ratio of the time that has elapsed since the last coupon payment date to the total time between coupon payments. Table 3 presents a statement of the actuarial value of assets as of September 30, 2001; Table 4 presents a statement of changes in the actuarial value of assets.

In an open group projection of a retirement system where the total number of employees is held constant, the number of retirees and survivors on the roll at year end, as well as the number withdrawing, retiring, dying, etc., each year, eventually levels out. When this occurs, the population is said to be “stationary.” In the projection in Table 9, DoD-projected endstrengths are used through the end of FY07. After that, the force size is held constant each year. However, the assumption of future mortality improvement results in a small increase in the retired population each year, so that the retired population is nearly, but not completely, stationary.

When a population becomes stationary, the fund disbursements increase each year at the same rate as total payroll, which is 3.5 percent per year. If the method of funding the system is theoretically sound, the value of the assets in the fund will also increase at this same rate, and thus will become a level percentage of payroll. Otherwise, the fund would either increase indefinitely as a percent of payroll, or decrease until it was zero.

A major portion of the investment income must be used to generate the 3.5 percent fund increases and cannot be used to pay benefits. For example, in the year 2040, the normal cost payment is \$36 billion, the investment income is \$130 billion, and fund disbursements are \$94 billion. The beginning-of-year fund balance is \$2,102 billion. The two sources of fund income will approximately equal benefit payments plus 3.5 percent of the beginning-of-the-year fund balance. That is, \$36 billion plus \$130 billion is about equal to \$94 billion plus \$74 billion ($\$2,102 \text{ billion} \times .035$)—the amount that would be required for the fund to grow by 3.5 percent during the year. The lack of equality is largely due to mortality improvement, which keeps the retired population from being stationary.

Under generally accepted accounting principles, private sector plans must also provide a “Statement of Net Assets Available for Benefits,” where the assets are valued at fair market value. This statement is included in Appendix M.

Normal Cost

The aggregate entry-age normal cost is the level percentage of basic pay that must be contributed over the entire active career of a typical group of new entrants to pay for all the future retirement benefits of that group. It is determined by using the new-entrant cohort as the starting population in a GORGO projection. Their basic pay and benefits are projected over the next 100 years, and then discounted back to the present to find the normal cost percentage. Mathematically, a normal cost percentage is developed by dividing the present value of future benefits for the entire cohort by the present value of future basic pay.

TABLE 3

DEPARTMENT OF DEFENSE
MILITARY RETIREMENT FUND
STATEMENT OF ACTUARIAL VALUE OF ASSETS
(\$ in thousands)

	For the Plan Year Ended September 30, 2001
Assets	
Investments, at book value	
U.S. Government securities ¹	\$164,389,835
Accounts receivable	
Accrued interest ²	\$4,787,526
Due from military retirees or their survivors	\$24,334
Cash	<u>\$18,236</u>
Actuarial value of assets	\$169,219,932

¹ Book value is determined by amortizing premium and discount over the life of the securities using the effective interest method.

² Includes accrued interest receivable and interest purchased.

TABLE 4

DEPARTMENT OF DEFENSE
MILITARY RETIREMENT FUND
STATEMENT OF CHANGES IN ACTUARIAL VALUE OF ASSETS
(\$ in thousands)

	For the Plan Year Ended September 30, 2001
Actuarial value of assets at beginning of plan year	\$162,674,501
Investment income	
Interest	\$14,573,538
Net appreciation (depreciation) in book value of investments ¹	\$(1,390,661)
Contributions	
From Services	\$11,370,897
Appropriation to amortize the unfunded liability	\$16,089,000
Transfer from Office of Personnel Management	\$33
Total additions	\$40,642,806
Benefits paid to participants	\$34,097,375
Actuarial value of assets	\$169,219,932

¹ Investments bought, sold and held during the plan year ended September 30, 2001 appreciated (depreciated) in value by \$(1,390,661) as follows:

Amortized discount	\$ 227,981
Amortized premium	\$(1,618,642)
Gain (loss) on sale	\$0
	<u>\$(1,390,661)</u>

As described in Appendix A, there are three distinct nondisability benefit formulas (relevant to three distinct populations) within the military retirement system. Retirement benefits are based on final basic pay (FINAL PAY) for personnel entering the Armed Services before September 8, 1980, and are based on the average of the highest 36 months (HI-3) for those entering on or after this date. Additionally, members first entering the Armed Services on or after August 1, 1986 who elect the \$30,000 bonus are subject to a reduction (REDUX) if they retire with less than 30 years of service.

Public Law 99-661, enacted in November 1986, mandated that two separate normal cost percentages (NCPs) be used for the valuation of the military retirement system. One NCP is for active-duty personnel and full-time reservists (full-time) and one is for part-time reservists (part-time). Full-time and part-time NCPs are calculated for each of the three separate benefit formulas. The FY02 NCPs are summarized below:

<u>Benefit Formula</u>	<u>Full-Time</u>	<u>Part-Time</u>
FINAL PAY	31.8%	15.4%
HI-3	28.9	14.6
REDUX	26.9	14.6

Table 5 shows the expected percentage of the total basic payroll that will be paid during the fiscal year to all active duty personnel who entered military service since the beginning of fiscal year t-k, where k can take on any value from 0 to 29. For example, during FY02 (t = 2002, 3 percent of the expected basic payroll will be paid to personnel entering service in that fiscal year (k = 0), and 94 percent of the expected basic payroll will be paid to persons entering service since the beginning of FY81 (k = 21). The data and methodology used to derive this table are described in Appendix E.

Thus, 94 percent of the basic payroll for FY02 is expected to be paid to personnel entering service since the beginning of FY81, while the remaining 6 percent of the expected basic payroll for FY02 will be for personnel whose retirement benefits are based on FINAL PAY². Of the 94 percent associated with post-FY80 new entrants, 77.5 percent is expected to be

² Actually, personnel hired before September 8, 1980 have their retirement benefits based on FINAL PAY, but for purposes of determining the weights in the weighted normal cost percentage, we use personnel hired before October 1, 1980.

TABLE 5

PERCENTAGE OF TOTAL BASIC PAYROLL PAID DURING FISCAL YEAR t TO ALL ACTIVE
DUTY PERSONNEL ENTERING SERVICE DURING OR AFTER SPECIFIC YEAR OF ENTRY

<u>Year of Entry</u>	<u>Percentage</u>
t	3%
$t-1$ or later	10
$t-2$ or later	18
$t-3$ or later	26
$t-4$ or later	32
$t-5$ or later	38
$t-6$ or later	43
$t-7$ or later	47
$t-8$ or later	52
$t-9$ or later	56
$t-10$ or later	60
$t-11$ or later	63
$t-12$ or later	67
$t-13$ or later	70
$t-14$ or later	74
$t-15$ or later	77
$t-16$ or later	80
$t-17$ or later	83
$t-18$ or later	86
$t-19$ or later	89
$t-20$ or later	92
$t-21$ or later	94
$t-22$ or later	95
$t-23$ or later	96
$t-24$ or later	97
$t-25$ or later	98
$t-26$ or later	98
$t-27$ or later	99
$t-28$ or later	99
$t-29$ or later	100

Based on basic payroll data for Fiscal Years 1987 to 1991, as described in Appendix E.

attributable to the REDUX members (entering on or after August 1, 1986) and the remaining 16.5 percent to the HI-3 members. The 77.5 percent was derived by interpolating between the factors for FY86 and FY87 years of entry. The FY02 weighted aggregate full and part-time normal cost percentages are obtained by weighting their respective normal cost percentages for the REDUX formula by 77.5 percent, the normal cost percentages for the HI-3 formula by 16.5 percent, and the normal cost percentages for the FINAL PAY formula by 6.0 percent. The resulting weighted aggregate full-time normal cost percentage is 27.5 percent, and the weighted aggregate part-time normal cost percentage is 14.7 percent. Due to Federal budget deadlines, the two normal cost percentages used to determine the actual contributions to the fund must be established a year in advance of implementation and may vary from those actually derived in a valuation.

Table 6 summarizes the components of the FY02 normal cost percentages.

TABLE 6
NORMAL COST AS A PERCENT OF BASIC PAY

<u>FULL-TIME</u>	<u>FINAL PAY</u>	<u>HI-3</u>	<u>REDUX</u>	<u>FY02 Weighted</u>
Nondisability benefits	30.5%	27.7%	25.8%	26.4%
Disability benefits	0.7	0.6	0.6	0.6
Survivor benefits	0.6	0.5	0.5	0.5
Total	31.8%	28.9%	26.9%	27.5%
<u>PART-TIME</u>				
Nondisability benefits	14.4%	13.7%	13.7%	13.7%
Disability benefits	0.0	0.0	0.0	0.0
Survivor benefits	1.0	0.9	0.9	0.9
Total	15.4%	14.6%	14.6%	14.7%

Note that columns may not add exactly due to rounding.

As can be determined from this table, about 96 percent of the full-time normal cost stems from nondisability retirement. Based on current decrement rates, 17 percent of a typical group of new entrants attain 20 years of active duty service and become eligible for nondisability retirement from active duty. Specifically, 47 percent of new officers and 15 percent of new enlistees attain 20 years of active duty service. It should be noted that some military personnel who begin their careers on active duty move to the reserves and retire from there.

Table 10 lists in the normal cost columns the projected weighted aggregate full-time and part-time normal cost percentages under current law for each year in the future. By 2014 both the full-time and part-time weighted aggregate percentages drop to the level of the REDUX normal cost percentages (full-time 26.9 percent; part-time 14.6 percent) since by that time virtually all non-retired personnel will have benefits based on the new formula.

Amortization of Unfunded Liability

Under PL 98-94, normal cost contributions began to be made by DoD on behalf of all military personnel on October 1, 1984. Since normal cost contributions had not been made for service prior to this date, there was an initial unfunded accrued liability, or “initial unfunded liability,” as of September 30, 1984, of \$528.7 billion. If this amount had been deposited in the retirement fund on September 30, 1984, then it, together with the future normal cost payments to be made on behalf of all active duty personnel and drilling reservists over the balance of their active careers, would have been sufficient to provide all expected retirement and survivor benefits for those in the system on that date.

The Board of Actuaries originally determined that the initial unfunded accrued liability of the system (\$528.7 billion) should be amortized with payments equal to 33 percent of the second preceding fiscal year’s basic payroll. It was originally projected that this method would amortize the initial unfunded liability over 60 years. However, economic assumption changes extended the amortization period well beyond 60 years. As a result, the Board revised the amortization method of the original unfunded liability in such a way that the amortization would have been completed in 2043. In more recent years, however, it was determined that the military retirement fund was projected to have a negative balance for several years before becoming positive again. The Board decided in 1996 to shorten the amortization period to 50 years. The initial unfunded liability is now expected to be fully amortized in 2033.

Changes in the unfunded liability can also arise because of modifications in benefit formulas, changes in actuarial assumptions, and deviations in actual experience from expected experience (gains and losses). The Board approved a method to amortize these changes over 30

years by payments that increase in absolute value at the same rate as the annual long-term basic pay scale assumption (currently 3.5 percent). A detailed description of the methods used to calculate the payment streams for changes in unfunded liability is in Appendix N.

Unfunded Accrued Liability as of September 30, 2001

Table 7 summarizes the calculation of the unfunded accrued liability as of September 30, 2001. The present value of future benefits is obtained by projecting future benefits for the total covered population (closed group with no new entrants) as of September 30, 2001, and discounting these benefits back to the present. The GORGO projection model projects benefits for the current active and retired populations over the rest of their lifetimes. The initial retirement benefits for military personnel are based on their total projected service at retirement, the applicable benefit formula, and projected basic pay increases. Subsequent retirement benefits include projected cost-of-living adjustments and the age 62 adjustment for those retiring under the REDUX formula.

The present value of future normal cost contributions is obtained by (1) using GORGO to project future yearly full-time and part-time basic pay for the September 30, 2001, covered population, (2) multiplying the pay by projected full-time and part-time weighted aggregate entry-age normal cost percentages (NCPs), and (3) discounting the resultant normal costs back to September 30, 2001. For this closed group, the relative percentages of basic pay subject to the three separate benefit formulas will change over time as fewer and fewer members are covered under the final pay formula. The *weighted* full and part-time NCPs that are multiplied against the future full- or part-time pay in each year reflect expected changing percentages of pay going to members covered by the three benefit formulas. This weighted procedure is roughly equivalent in the aggregate to projecting separately the pay of each of the six groups of active duty and selected reserve members and multiplying it by the individual group's NCP.

The weighted aggregate entry-age normal cost percentages for FY02 are 27.5 percent full-time and 14.7 percent part-time. Federal budget deadlines require the establishment of normal cost percentages a year in advance of the valuation. Consequently, the percentages actually implemented in a fiscal year may vary from those derived in the valuation. These differences, which are small unless major actuarial assumptions are changed, are reflected in the unfunded liability by using the implemented normal cost in the first year of the projection.

Deducting the present value of normal costs and the amortized cost value of the fund from the present value of future benefits leaves an unfunded liability of \$539.6 billion as of September 30, 2001. This was 0.8 percent greater than the expected unfunded liability of \$535.3 billion. The expected unfunded liability is what the unfunded liability would have been if all actuarial assumptions had been realized and all benefit formulas had remained unchanged. The fact that the actual unfunded liability is greater than expected means that there was a total FY01 loss of \$4.3 billion (\$539.6 billion minus \$535.3 billion). The components of this loss are

outlined in Table 8. The total experience gain is divided into three segments: the gain due to the difference between the actual interest rate earned by the fund and the assumed interest rate; the net loss due to the actual COLA and salary increases being different from those assumed; and the loss due to differences between all noneconomic assumptions and the actual experience for the year. See the Summary of Changes for the September 30, 2001, Valuation for a more detailed breakdown of the gains and losses outlined in Table 8.

TABLE 7

MILITARY RETIREMENT SYSTEM
ACTUARIAL STATUS INFORMATION
AS OF SEPTEMBER 30, 2001
(\$ in billions)

		For the Plan Year Ended September 30, 2001
1.	Present value of future benefits	
	a. Annuitants now on roll	\$487.3
	b. Nonretired reservists	\$56.6
	c. Active duty personnel ¹	\$255.7
	TOTAL	\$799.6
2.	Present value of future employer normal cost contributions	\$90.8
3.	Actuarial accrued liability	\$708.8
4.	Actuarial value of assets ²	\$169.2
5.	Unfunded accrued liability	\$539.6
6.	Normal cost percentage (NCP) ³ to be applied to basic pay in the following fiscal year	
	a. Full-time	27.5%
	b. Part-time	14.7%

Basic pay is only a portion of active duty military compensation. See the summary of the military retirement system for details.

¹ The future benefits of active duty personnel expected to retire as reservists are counted on line 1.b.

² The actuarial value of assets is determined using the amortized cost method of valuation.

³ Due to the need to establish the normal cost percentages a year in advance of implementation (Federal budget deadlines), the percentages actually used in a fiscal year may vary from the ones derived in the valuation and displayed here.

TABLE 8
FY01 CHANGE IN UNFUNDED LIABILITY
(\$ in billions)

1.	Actual unfunded accrued liability 9/30/01	\$539.6	
2.	Expected unfunded accrued liability 9/30/01	\$535.3	
3.	Total loss	(\$4.3)	(0.8%)
a.	Total experience gain	\$0.8	(0.2%)
	Interest assumption	\$2.7	(0.5%)
	COLA & salary assumptions	(\$0.2)	(0.0%)
	Noneconomic assumptions	(\$1.7)	(0.3%)
b.	Total benefit change loss	(\$3.4)	(0.6%)
c.	Total assumption change loss	(\$1.7)	(0.3%)
	New parameters	\$15.6	(2.9%)
	New decrement rates	(\$17.5)	(3.3%)
	Input file changes	(\$0.0)	(0.0%)
	Procedure changes	\$0.2	(0.0%)

(Percentages shown are ratios of absolute values of each gain or loss component to the expected unfunded accrued liability.)

These changes in unfunded liability were used to calculate the October 1, 2002, unfunded liability payment. The total payment was determined to be \$17,928 million. This total payment includes (1) a payment of \$45,096 million to amortize the original unfunded liability, less (2) an amount of \$10,059 million to amortize changes in actuarial assumptions, plus (3) an amount of \$661 million to amortize benefit changes, less (4) an amount of \$17,770 million to amortize total combined experience gains and losses through FY01. The detailed calculations of these payment components are located in Appendix N. Tables 11 and 12 show the projection of these individual payment and liability streams. Tables 9 and 10 display all projected transactions to the fund.

Other measures of a retirement system's liabilities (required for private sector plans under generally accepted accounting principles) are the "Accumulated Plan Benefits" and the market value of assets. These items and explanatory notes are included in Appendix M.

TABLE 9

MILITARY RETIREMENT SYSTEM
PAST AND PROJECTED FLOW OF PLAN ASSETS
(In Billions of Dollars and as a Proportion of Payroll)

Fiscal Year	Basic Payroll ²	Normal Cost Payments ³	Amortization of Unfunded Liability	Investment Income	Fund Disbursements ⁴	Fund Balance End of Year ⁵
1985	\$33.5	\$17.0	\$9.5	\$1.1	\$15.8	\$11.8
1986	\$35.4	\$17.4	\$10.5	\$2.5	\$17.6	\$24.6
1987	\$36.4	\$18.3	\$10.5	\$3.6	\$18.1	\$38.9
1988	\$37.3	\$18.4	\$10.3	\$5.1	\$17.5	\$53.4
1989	\$38.6	\$18.5	\$9.8	\$6.1	\$20.2	\$67.6
1990	\$39.8	\$16.3	\$10.6	\$7.3	\$21.5	\$80.4
1991	\$42.3	\$17.2	\$10.8	\$8.5	\$23.1	\$93.7
1992	\$41.1	\$16.3	\$11.2	\$9.4	\$24.5	\$106.1
1993	\$38.9	\$13.2	\$12.3	\$10.0	\$25.7	\$115.9
1994	\$38.3	\$12.8	\$11.9	\$10.3	\$26.7	\$124.2
1995	\$37.1	\$12.2	\$11.5	\$10.9	\$27.8	\$131.0
1996	\$36.7	\$11.2	\$10.7	\$11.2	\$28.8	\$135.3
1997	\$36.8	\$11.1	\$15.2	\$11.9	\$30.2	\$143.3
1998	\$37.1	\$10.5	\$15.1	\$12.2	\$31.1	\$149.9
1999	\$37.6	\$10.5	\$15.3	\$12.3	\$31.9	\$156.0
2000	\$39.0	\$11.5	\$15.3	\$12.6	\$32.8	\$162.7
2001	\$40.9	\$11.4	\$16.1	\$13.1	\$34.1	\$169.2

TABLE 9 (cont.)

MILITARY RETIREMENT SYSTEM
PAST AND PROJECTED FLOW OF PLAN ASSETS¹
(In Billions of Dollars and as a Proportion of Payroll)

Fiscal Year	Basic Payroll ²	Normal Cost Payments ³		Amortization of Unfunded Liability		Investment Income		Fund Disbursements ⁴		Fund Balance End of Year ⁵	
2002	\$42.8	\$12.3	(0.287)	\$17.0	(0.398)	\$10.9	(0.255)	\$35.3	(0.824)	\$174.2	(4.068)
2003	\$44.1	\$11.5	(0.261)	\$17.9	(0.406)	\$11.2	(0.255)	\$36.2	(0.821)	\$178.7	(4.049)
2004	\$45.1	\$11.8	(0.261)	\$18.6	(0.413)	\$11.5	(0.256)	\$37.2	(0.825)	\$183.4	(4.066)
2005	\$46.1	\$12.0	(0.260)	\$19.3	(0.418)	\$11.8	(0.257)	\$38.3	(0.832)	\$188.1	(4.083)
2006	\$47.1	\$12.2	(0.259)	\$19.9	(0.423)	\$12.2	(0.258)	\$39.5	(0.837)	\$192.9	(4.093)
2007	\$48.3	\$12.5	(0.258)	\$20.6	(0.427)	\$12.5	(0.258)	\$40.7	(0.842)	\$197.9	(4.095)
2008	\$49.6	\$12.8	(0.258)	\$21.4	(0.431)	\$12.8	(0.258)	\$41.8	(0.844)	\$203.0	(4.095)
2009	\$50.9	\$13.1	(0.257)	\$22.1	(0.435)	\$13.1	(0.258)	\$43.1	(0.846)	\$208.3	(4.093)
2010	\$52.3	\$13.4	(0.257)	\$22.9	(0.438)	\$13.5	(0.258)	\$44.1	(0.844)	\$214.0	(4.093)
2011	\$53.7	\$13.8	(0.257)	\$23.7	(0.441)	\$13.9	(0.258)	\$45.3	(0.843)	\$220.0	(4.093)
2012	\$55.4	\$14.2	(0.257)	\$24.5	(0.443)	\$14.3	(0.258)	\$46.5	(0.841)	\$226.4	(4.090)
2013	\$57.0	\$14.6	(0.256)	\$25.4	(0.445)	\$14.7	(0.258)	\$47.8	(0.838)	\$233.4	(4.091)
2014	\$58.8	\$15.1	(0.256)	\$26.3	(0.447)	\$15.2	(0.258)	\$49.0	(0.833)	\$240.9	(4.096)
2015	\$60.7	\$15.5	(0.256)	\$27.2	(0.448)	\$15.7	(0.258)	\$50.2	(0.827)	\$249.1	(4.106)
2016	\$62.6	\$16.0	(0.256)	\$28.1	(0.449)	\$16.2	(0.259)	\$51.4	(0.821)	\$258.1	(4.122)
2017	\$64.6	\$16.5	(0.256)	\$29.1	(0.451)	\$16.8	(0.260)	\$52.6	(0.815)	\$267.9	(4.148)
2018	\$66.6	\$17.1	(0.256)	\$30.1	(0.452)	\$17.5	(0.262)	\$53.9	(0.810)	\$278.6	(4.183)
2019	\$68.7	\$17.6	(0.256)	\$31.2	(0.454)	\$18.2	(0.265)	\$55.2	(0.803)	\$290.4	(4.225)
2020	\$70.9	\$18.2	(0.256)	\$32.3	(0.455)	\$19.0	(0.267)	\$56.5	(0.797)	\$303.2	(4.275)
2021	\$73.2	\$18.7	(0.256)	\$33.4	(0.456)	\$19.8	(0.271)	\$57.9	(0.790)	\$317.3	(4.334)
2022	\$75.6	\$19.3	(0.256)	\$34.6	(0.457)	\$20.7	(0.274)	\$59.2	(0.783)	\$332.8	(4.400)
2023	\$78.1	\$20.0	(0.256)	\$35.5	(0.459)	\$21.2	(0.277)	\$60.7	(0.776)	\$348.8	(4.474)
2024	\$80.8	\$20.7	(0.256)	\$36.4	(0.461)	\$21.9	(0.280)	\$62.1	(0.769)	\$365.4	(4.558)
2025	\$83.5	\$21.4	(0.256)	\$37.5	(0.463)	\$22.6	(0.283)	\$63.6	(0.761)	\$382.6	(4.650)
2026	\$86.4	\$22.1	(0.256)	\$38.6	(0.465)	\$23.3	(0.286)	\$65.1	(0.754)	\$400.4	(4.750)
2027	\$89.3	\$22.8	(0.256)	\$39.8	(0.467)	\$24.1	(0.289)	\$66.7	(0.747)	\$418.8	(4.858)
2028	\$92.3	\$23.6	(0.256)	\$41.1	(0.469)	\$25.0	(0.292)	\$68.4	(0.740)	\$437.8	(4.974)
2029	\$95.5	\$24.4	(0.256)	\$42.5	(0.471)	\$25.9	(0.295)	\$70.1	(0.734)	\$457.4	(5.098)
2030	\$98.8	\$25.3	(0.256)	\$44.0	(0.473)	\$26.8	(0.298)	\$72.0	(0.729)	\$477.6	(5.230)
2031	\$102.2	\$26.1	(0.256)	\$45.6	(0.475)	\$27.7	(0.301)	\$73.9	(0.723)	\$498.4	(5.370)
2032	\$105.7	\$27.0	(0.256)	\$47.3	(0.477)	\$28.7	(0.304)	\$75.9	(0.718)	\$519.8	(5.518)
2033	\$109.4	\$28.0	(0.256)	\$49.1	(0.479)	\$29.7	(0.307)	\$78.0	(0.713)	\$541.8	(5.674)
2034	\$113.2	\$28.9	(0.256)	\$51.0	(0.481)	\$30.7	(0.310)	\$80.1	(0.708)	\$564.4	(5.838)
2035	\$117.1	\$29.9	(0.256)	\$53.0	(0.483)	\$31.7	(0.313)	\$82.2	(0.702)	\$587.6	(6.008)
2036	\$121.2	\$31.0	(0.256)	\$55.1	(0.485)	\$32.8	(0.316)	\$84.5	(0.697)	\$611.4	(6.184)
2037	\$125.4	\$32.1	(0.256)	\$57.3	(0.487)	\$33.9	(0.319)	\$86.7	(0.692)	\$635.8	(6.366)
2038	\$129.7	\$33.2	(0.256)	\$59.6	(0.489)	\$35.1	(0.322)	\$89.1	(0.687)	\$660.8	(6.554)
2039	\$134.2	\$34.3	(0.256)	\$62.0	(0.491)	\$36.3	(0.325)	\$91.6	(0.682)	\$686.4	(6.748)
2040	\$138.9	\$35.5	(0.256)	\$64.5	(0.493)	\$37.5	(0.328)	\$94.1	(0.677)	\$712.6	(6.948)
2041	\$143.8	\$36.8	(0.256)	\$67.1	(0.495)	\$38.8	(0.331)	\$96.7	(0.672)	\$739.4	(7.154)
2042	\$148.8	\$38.1	(0.256)	\$69.8	(0.497)	\$40.1	(0.334)	\$99.4	(0.668)	\$766.8	(7.366)
2043	\$154.0	\$39.4	(0.256)	\$72.6	(0.499)	\$41.5	(0.337)	\$102.2	(0.664)	\$794.8	(7.584)
2044	\$159.5	\$40.8	(0.256)	\$75.5	(0.501)	\$42.9	(0.340)	\$105.1	(0.659)	\$823.4	(7.808)
2045	\$165.1	\$42.2	(0.256)	\$78.5	(0.503)	\$44.4	(0.343)	\$108.2	(0.655)	\$852.6	(8.038)
2046	\$170.8	\$43.7	(0.256)	\$81.6	(0.505)	\$45.9	(0.346)	\$111.3	(0.651)	\$882.4	(8.274)
2047	\$176.8	\$45.2	(0.256)	\$84.8	(0.507)	\$47.4	(0.349)	\$114.5	(0.648)	\$912.8	(8.516)
2048	\$183.1	\$46.8	(0.256)	\$88.1	(0.509)	\$48.9	(0.352)	\$117.9	(0.644)	\$943.8	(8.764)
2049	\$189.5	\$48.5	(0.256)	\$91.5	(0.511)	\$50.5	(0.355)	\$121.4	(0.641)	\$975.4	(9.018)
2050	\$196.1	\$50.2	(0.256)	\$95.0	(0.513)	\$52.1	(0.358)	\$125.1	(0.638)	\$1,007.6	(9.278)
2051	\$203.0	\$51.9	(0.256)	\$98.6	(0.515)	\$53.8	(0.361)	\$128.9	(0.635)	\$1,040.4	(9.544)

TABLE 9 (cont.)

MILITARY RETIREMENT SYSTEM
PAST AND PROJECTED FLOW OF PLAN ASSETS¹
(In Billions of Dollars and as a Proportion of Payroll)

Fiscal Year	Basic Payroll ²	Normal Cost Payments ³		Amortization of Unfunded Liability		Investment Income		Fund Disbursements ⁴		Fund Balance End of Year ⁵	
2052	\$210.1	\$53.7	(0.256)	\$0.0	0.000	\$196.6	(0.936)	\$132.8	(0.632)	\$3,302.9	(15.718)
2053	\$217.5	\$55.6	(0.256)	\$0.0	0.000	\$203.9	(0.937)	\$137.0	(0.630)	\$3,425.4	(15.749)
2054	\$225.1	\$57.6	(0.256)	\$0.0	0.000	\$211.5	(0.939)	\$141.3	(0.628)	\$3,553.1	(15.783)
2055	\$233.0	\$59.6	(0.256)	\$0.0	0.000	\$219.4	(0.941)	\$145.8	(0.626)	\$3,686.2	(15.820)
2056	\$241.2	\$61.7	(0.256)	\$0.0	0.000	\$227.6	(0.944)	\$150.6	(0.624)	\$3,824.9	(15.860)
2057	\$249.6	\$63.8	(0.256)	\$0.0	0.000	\$236.2	(0.946)	\$155.5	(0.623)	\$3,969.4	(15.903)
2058	\$258.3	\$66.1	(0.256)	\$0.0	0.000	\$245.1	(0.949)	\$160.7	(0.622)	\$4,119.9	(15.949)
2059	\$267.4	\$68.4	(0.256)	\$0.0	0.000	\$254.4	(0.952)	\$166.1	(0.621)	\$4,276.7	(15.996)
2060	\$276.7	\$70.8	(0.256)	\$0.0	0.000	\$264.1	(0.955)	\$171.7	(0.621)	\$4,439.8	(16.045)
2061	\$286.4	\$73.2	(0.256)	\$0.0	0.000	\$274.2	(0.958)	\$177.6	(0.620)	\$4,609.7	(16.096)
2062	\$296.4	\$75.8	(0.256)	\$0.0	0.000	\$284.7	(0.961)	\$183.7	(0.620)	\$4,786.5	(16.149)
2063	\$306.8	\$78.4	(0.256)	\$0.0	0.000	\$295.7	(0.964)	\$190.1	(0.620)	\$4,970.4	(16.203)
2064	\$317.5	\$81.2	(0.256)	\$0.0	0.000	\$307.0	(0.967)	\$196.8	(0.620)	\$5,161.9	(16.259)
2065	\$328.6	\$84.0	(0.256)	\$0.0	0.000	\$318.9	(0.970)	\$203.8	(0.620)	\$5,361.0	(16.315)
2066	\$340.1	\$87.0	(0.256)	\$0.0	0.000	\$331.2	(0.974)	\$211.0	(0.620)	\$5,568.1	(16.373)
2067	\$352.0	\$90.0	(0.256)	\$0.0	0.000	\$344.0	(0.977)	\$218.5	(0.621)	\$5,783.6	(16.431)
2068	\$364.3	\$93.2	(0.256)	\$0.0	0.000	\$357.3	(0.981)	\$226.3	(0.621)	\$6,007.8	(16.491)
2069	\$377.1	\$96.4	(0.256)	\$0.0	0.000	\$371.2	(0.984)	\$234.4	(0.622)	\$6,241.0	(16.552)
2070	\$390.3	\$99.8	(0.256)	\$0.0	0.000	\$385.6	(0.988)	\$242.9	(0.622)	\$6,483.5	(16.613)
2071	\$403.9	\$103.3	(0.256)	\$0.0	0.000	\$400.6	(0.992)	\$251.6	(0.623)	\$6,735.8	(16.676)
2072	\$418.1	\$106.9	(0.256)	\$0.0	0.000	\$416.2	(0.995)	\$260.6	(0.623)	\$6,998.2	(16.739)
2073	\$432.7	\$110.7	(0.256)	\$0.0	0.000	\$432.4	(0.999)	\$270.0	(0.624)	\$7,271.3	(16.804)
2074	\$447.9	\$114.5	(0.256)	\$0.0	0.000	\$449.3	(1.003)	\$279.8	(0.625)	\$7,555.3	(16.870)
2075	\$463.5	\$118.5	(0.256)	\$0.0	0.000	\$466.9	(1.007)	\$289.9	(0.625)	\$7,850.8	(16.936)
2076	\$479.8	\$122.7	(0.256)	\$0.0	0.000	\$485.1	(1.011)	\$300.3	(0.626)	\$8,158.3	(17.004)
2077	\$496.6	\$127.0	(0.256)	\$0.0	0.000	\$504.1	(1.015)	\$311.2	(0.627)	\$8,478.3	(17.073)
2078	\$514.0	\$131.4	(0.256)	\$0.0	0.000	\$523.9	(1.019)	\$322.4	(0.627)	\$8,811.3	(17.144)
2079	\$532.0	\$136.0	(0.256)	\$0.0	0.000	\$544.5	(1.024)	\$334.0	(0.628)	\$9,157.8	(17.215)
2080	\$550.6	\$140.8	(0.256)	\$0.0	0.000	\$565.9	(1.028)	\$346.1	(0.629)	\$9,518.5	(17.288)
2081	\$569.9	\$145.7	(0.256)	\$0.0	0.000	\$588.3	(1.032)	\$358.6	(0.629)	\$9,893.9	(17.362)
2082	\$589.8	\$150.8	(0.256)	\$0.0	0.000	\$611.5	(1.037)	\$371.5	(0.630)	\$10,284.6	(17.437)
2083	\$610.5	\$156.1	(0.256)	\$0.0	0.000	\$635.6	(1.041)	\$385.0	(0.631)	\$10,691.4	(17.514)
2084	\$631.8	\$161.6	(0.256)	\$0.0	0.000	\$660.8	(1.046)	\$398.9	(0.631)	\$11,114.9	(17.592)
2085	\$653.9	\$167.2	(0.256)	\$0.0	0.000	\$687.0	(1.051)	\$413.3	(0.632)	\$11,555.9	(17.671)
2086	\$676.8	\$173.1	(0.256)	\$0.0	0.000	\$714.3	(1.055)	\$428.2	(0.633)	\$12,015.0	(17.752)
2087	\$700.5	\$179.1	(0.256)	\$0.0	0.000	\$742.7	(1.060)	\$443.7	(0.633)	\$12,493.1	(17.834)
2088	\$725.0	\$185.4	(0.256)	\$0.0	0.000	\$772.2	(1.065)	\$459.7	(0.634)	\$12,991.0	(17.918)
2089	\$750.4	\$191.9	(0.256)	\$0.0	0.000	\$803.0	(1.070)	\$476.4	(0.635)	\$13,509.6	(18.003)
2090	\$776.7	\$198.6	(0.256)	\$0.0	0.000	\$835.1	(1.075)	\$493.6	(0.636)	\$14,049.8	(18.090)
2091	\$803.8	\$205.6	(0.256)	\$0.0	0.000	\$868.6	(1.081)	\$511.4	(0.636)	\$14,612.4	(18.178)
2092	\$832.0	\$212.8	(0.256)	\$0.0	0.000	\$903.4	(1.086)	\$529.9	(0.637)	\$15,198.6	(18.268)
2093	\$861.1	\$220.2	(0.256)	\$0.0	0.000	\$939.6	(1.091)	\$549.1	(0.638)	\$15,809.4	(18.360)
2094	\$891.2	\$227.9	(0.256)	\$0.0	0.000	\$977.4	(1.097)	\$568.9	(0.638)	\$16,445.8	(18.453)
2095	\$922.4	\$235.9	(0.256)	\$0.0	0.000	\$1,016.8	(1.102)	\$589.5	(0.639)	\$17,109.0	(18.548)
2096	\$954.7	\$244.1	(0.256)	\$0.0	0.000	\$1,057.9	(1.108)	\$610.8	(0.640)	\$17,800.2	(18.644)
2097	\$988.1	\$252.7	(0.256)	\$0.0	0.000	\$1,100.6	(1.114)	\$632.9	(0.640)	\$18,520.6	(18.743)
2098	\$1,022.7	\$261.5	(0.256)	\$0.0	0.000	\$1,145.2	(1.120)	\$655.7	(0.641)	\$19,271.6	(18.843)
2099	\$1,058.5	\$270.7	(0.256)	\$0.0	0.000	\$1,191.7	(1.126)	\$679.4	(0.642)	\$20,054.6	(18.946)
2100	\$1,095.6	\$280.2	(0.256)	\$0.0	0.000	\$1,240.2	(1.132)	\$703.9	(0.643)	\$20,871.0	(19.050)

FOOTNOTES FOR TABLE 9

- 1 Public Law 98-94 established the military retirement fund. Under the law, the DoD is responsible for the normal cost payment and the Treasury is responsible for the payments on the unfunded liability. There are no employee contributions to the fund.
- 2 DoD-projected endstrengths are used through FY07 and constant force strengths thereafter. Basic pay is only a portion of military compensation. See the Summary of the Military Retirement System in Appendix A for details.
- 3 Due to federal budget deadlines, normal cost percentages are established a year in advance of implementation. The percentage actually used and displayed here may vary from the one derived in the valuation as of the end of the previous year. Starting in FY87, normal cost percentages are developed separately for the full-time and part-time basic payrolls. See Table 10 for this additional breakdown.
- 4 Disbursements are on a cash basis. Beginning in December 1984, entitlements obligated for a month are paid at the beginning of the following month. Prior to this date, entitlements were paid at the end of the month of obligation. Consequently, FY85 disbursements include only 11 months of payments.
- 5 This fund balance (on a book value basis) reflects cash disbursements during the year. On September 30, 2001, assets in the fund totaled \$169.2 billion.

NOTE: Mortality rates that are applied in the valuation to active (non-retired) members, nondisabled retirees, and survivor beneficiaries are decreased (or "improved") over time. See Appendix J for details.

ANNUAL ECONOMIC ASSUMPTIONS USED IN PROJECTIONS OF PLAN ASSETS

<u>Fiscal Year</u>	<u>Full COLA</u>	<u>Basic Pay</u>	<u>Interest</u>
2002	2.6	4.6	6.25
2003	1.8	4.1	6.25
2004	2.2	3.4	6.25
2005	2.3	3.4	6.25
2006-2010	2.4	3.4	6.25
2011	3.0	3.4	6.25
2012+	3.0	3.5	6.25

Full COLA is equal to full cost-of-living increases to retiree and survivor annuities. Interest assumptions pertain to interest income for the entire portfolio in a fiscal year. Long-term annual economic assumptions (used in the normal cost and unfunded liability calculations) are 3.0% COLA, 3.5% basic pay and 6.25% interest.

TABLE 10

MILITARY RETIREMENT SYSTEM
PROJECTED PAYROLL AND NORMAL COST PAYMENTS
(In Billions of Dollars and as a Proportion of Payroll)

Fiscal Year	Payroll			Normal Cost Payments				
	Full-Time	Part-Time	Total	Full-Time		Part-Time		Total
2002	\$38.5	\$4.3	\$42.8	\$11.7	(0.303)	\$0.6	(0.144)	\$12.3
2003	\$39.6	\$4.5	\$44.1	\$10.9	(0.274)	\$0.7	(0.146)	\$11.5
2004	\$40.5	\$4.6	\$45.1	\$11.1	(0.274)	\$0.7	(0.146)	\$11.8
2005	\$41.3	\$4.8	\$46.1	\$11.3	(0.273)	\$0.7	(0.146)	\$12.0
2006	\$42.3	\$4.9	\$47.1	\$11.5	(0.272)	\$0.7	(0.146)	\$12.2
2007	\$43.3	\$5.0	\$48.3	\$11.7	(0.271)	\$0.7	(0.146)	\$12.5
2008	\$44.4	\$5.2	\$49.6	\$12.0	(0.271)	\$0.8	(0.146)	\$12.8
2009	\$45.5	\$5.3	\$50.9	\$12.3	(0.271)	\$0.8	(0.146)	\$13.1
2010	\$46.8	\$5.5	\$52.3	\$12.6	(0.270)	\$0.8	(0.146)	\$13.4
2011	\$48.1	\$5.7	\$53.7	\$13.0	(0.270)	\$0.8	(0.146)	\$13.8
2012	\$49.5	\$5.9	\$55.4	\$13.3	(0.270)	\$0.9	(0.146)	\$14.2
2013	\$51.0	\$6.1	\$57.0	\$13.7	(0.270)	\$0.9	(0.146)	\$14.6
2014	\$52.5	\$6.3	\$58.8	\$14.2	(0.269)	\$0.9	(0.146)	\$15.1
2015	\$54.2	\$6.5	\$60.7	\$14.6	(0.269)	\$1.0	(0.146)	\$15.5
2016	\$55.9	\$6.7	\$62.6	\$15.0	(0.269)	\$1.0	(0.146)	\$16.0
2017	\$57.6	\$7.0	\$64.6	\$15.5	(0.269)	\$1.0	(0.146)	\$16.5
2018	\$59.4	\$7.2	\$66.6	\$16.0	(0.269)	\$1.1	(0.146)	\$17.1
2019	\$61.3	\$7.5	\$68.7	\$16.5	(0.269)	\$1.1	(0.146)	\$17.6
2020	\$63.2	\$7.7	\$70.9	\$17.0	(0.269)	\$1.1	(0.146)	\$18.2
2021	\$65.2	\$8.0	\$73.2	\$17.6	(0.269)	\$1.2	(0.146)	\$18.7
2022	\$67.4	\$8.3	\$75.6	\$18.1	(0.269)	\$1.2	(0.146)	\$19.3
2023	\$69.6	\$8.5	\$78.1	\$18.7	(0.269)	\$1.2	(0.146)	\$20.0
2024	\$71.9	\$8.8	\$80.8	\$19.4	(0.269)	\$1.3	(0.146)	\$20.7
2025	\$74.4	\$9.1	\$83.5	\$20.0	(0.269)	\$1.3	(0.146)	\$21.4
2026	\$76.9	\$9.5	\$86.4	\$20.7	(0.269)	\$1.4	(0.146)	\$22.1
2027	\$79.5	\$9.8	\$89.3	\$21.4	(0.269)	\$1.4	(0.146)	\$22.8
2028	\$82.2	\$10.1	\$92.3	\$22.1	(0.269)	\$1.5	(0.146)	\$23.6
2029	\$85.0	\$10.5	\$95.5	\$22.9	(0.269)	\$1.5	(0.146)	\$24.4
2030	\$87.9	\$10.9	\$98.8	\$23.7	(0.269)	\$1.6	(0.146)	\$25.3
2031	\$91.0	\$11.2	\$102.2	\$24.5	(0.269)	\$1.6	(0.146)	\$26.1
2032	\$94.1	\$11.6	\$105.7	\$25.3	(0.269)	\$1.7	(0.146)	\$27.0
2033	\$97.3	\$12.0	\$109.4	\$26.2	(0.269)	\$1.8	(0.146)	\$28.0
2034	\$100.7	\$12.5	\$113.2	\$27.1	(0.269)	\$1.8	(0.146)	\$28.9
2035	\$104.2	\$12.9	\$117.1	\$28.1	(0.269)	\$1.9	(0.146)	\$29.9
2036	\$107.8	\$13.4	\$121.2	\$29.0	(0.269)	\$1.9	(0.146)	\$31.0
2037	\$111.6	\$13.8	\$125.4	\$30.0	(0.269)	\$2.0	(0.146)	\$32.1
2038	\$115.4	\$14.3	\$129.7	\$31.1	(0.269)	\$2.1	(0.146)	\$33.2
2039	\$119.4	\$14.8	\$134.2	\$32.2	(0.269)	\$2.2	(0.146)	\$34.3
2040	\$123.6	\$15.3	\$138.9	\$33.3	(0.269)	\$2.2	(0.146)	\$35.5
2041	\$127.9	\$15.9	\$143.8	\$34.5	(0.269)	\$2.3	(0.146)	\$36.8
2042	\$132.4	\$16.4	\$148.8	\$35.7	(0.269)	\$2.4	(0.146)	\$38.1
2043	\$137.1	\$17.0	\$154.0	\$36.9	(0.269)	\$2.5	(0.146)	\$39.4
2044	\$141.9	\$17.6	\$159.5	\$38.2	(0.269)	\$2.6	(0.146)	\$40.8
2045	\$146.9	\$18.2	\$165.1	\$39.5	(0.269)	\$2.7	(0.146)	\$42.2
2046	\$152.0	\$18.8	\$170.8	\$40.9	(0.269)	\$2.8	(0.146)	\$43.7
2047	\$157.4	\$19.5	\$176.8	\$42.4	(0.269)	\$2.8	(0.146)	\$45.2
2048	\$162.9	\$20.2	\$183.1	\$43.9	(0.269)	\$2.9	(0.146)	\$46.8
2049	\$168.6	\$20.9	\$189.5	\$45.4	(0.269)	\$3.0	(0.146)	\$48.5
2050	\$174.5	\$21.6	\$196.1	\$47.0	(0.269)	\$3.2	(0.146)	\$50.2
2051	\$180.6	\$22.4	\$203.0	\$48.6	(0.269)	\$3.3	(0.146)	\$51.9

TABLE 10 (cont.)

MILITARY RETIREMENT SYSTEM
PROJECTED PAYROLL AND NORMAL COST PAYMENTS
(In Billions of Dollars and as a Proportion of Payroll)

Fiscal Year	Payroll			Normal Cost Payments				
	Full-Time	Part-Time	Total	Full-Time		Part-Time		Total
2052	\$187.0	\$23.2	\$210.1	\$50.4	(0.269)	\$3.4	(0.146)	\$53.7
2053	\$193.5	\$24.0	\$217.5	\$52.1	(0.269)	\$3.5	(0.146)	\$55.6
2054	\$200.3	\$24.8	\$225.1	\$53.9	(0.269)	\$3.6	(0.146)	\$57.6
2055	\$207.3	\$25.7	\$233.0	\$55.8	(0.269)	\$3.7	(0.146)	\$59.6
2056	\$214.6	\$26.6	\$241.2	\$57.8	(0.269)	\$3.9	(0.146)	\$61.7
2057	\$222.1	\$27.5	\$249.6	\$59.8	(0.269)	\$4.0	(0.146)	\$63.8
2058	\$229.9	\$28.5	\$258.3	\$61.9	(0.269)	\$4.2	(0.146)	\$66.1
2059	\$237.9	\$29.5	\$267.4	\$64.1	(0.269)	\$4.3	(0.146)	\$68.4
2060	\$246.2	\$30.5	\$276.7	\$66.3	(0.269)	\$4.5	(0.146)	\$70.8
2061	\$254.8	\$31.6	\$286.4	\$68.6	(0.269)	\$4.6	(0.146)	\$73.2
2062	\$263.7	\$32.7	\$296.4	\$71.0	(0.269)	\$4.8	(0.146)	\$75.8
2063	\$273.0	\$33.8	\$306.8	\$73.5	(0.269)	\$4.9	(0.146)	\$78.4
2064	\$282.5	\$35.0	\$317.5	\$76.1	(0.269)	\$5.1	(0.146)	\$81.2
2065	\$292.4	\$36.2	\$328.6	\$78.7	(0.269)	\$5.3	(0.146)	\$84.0
2066	\$302.6	\$37.5	\$340.1	\$81.5	(0.269)	\$5.5	(0.146)	\$87.0
2067	\$313.2	\$38.8	\$352.0	\$84.3	(0.269)	\$5.7	(0.146)	\$90.0
2068	\$324.2	\$40.1	\$364.3	\$87.3	(0.269)	\$5.9	(0.146)	\$93.2
2069	\$335.5	\$41.6	\$377.1	\$90.4	(0.269)	\$6.1	(0.146)	\$96.4
2070	\$347.2	\$43.0	\$390.3	\$93.5	(0.269)	\$6.3	(0.146)	\$99.8
2071	\$359.4	\$44.5	\$403.9	\$96.8	(0.269)	\$6.5	(0.146)	\$103.3
2072	\$372.0	\$46.1	\$418.1	\$100.2	(0.269)	\$6.7	(0.146)	\$106.9
2073	\$385.0	\$47.7	\$432.7	\$103.7	(0.269)	\$7.0	(0.146)	\$110.7
2074	\$398.5	\$49.4	\$447.9	\$107.3	(0.269)	\$7.2	(0.146)	\$114.5
2075	\$412.5	\$51.1	\$463.5	\$111.1	(0.269)	\$7.5	(0.146)	\$118.5
2076	\$426.9	\$52.9	\$479.8	\$115.0	(0.269)	\$7.7	(0.146)	\$122.7
2077	\$441.9	\$54.7	\$496.6	\$119.0	(0.269)	\$8.0	(0.146)	\$127.0
2078	\$457.3	\$56.6	\$514.0	\$123.2	(0.269)	\$8.3	(0.146)	\$131.4
2079	\$473.3	\$58.6	\$532.0	\$127.5	(0.269)	\$8.6	(0.146)	\$136.0
2080	\$489.9	\$60.7	\$550.6	\$131.9	(0.269)	\$8.9	(0.146)	\$140.8
2081	\$507.1	\$62.8	\$569.9	\$136.6	(0.269)	\$9.2	(0.146)	\$145.7
2082	\$524.8	\$65.0	\$589.8	\$141.3	(0.269)	\$9.5	(0.146)	\$150.8
2083	\$543.2	\$67.3	\$610.5	\$146.3	(0.269)	\$9.8	(0.146)	\$156.1
2084	\$562.2	\$69.6	\$631.8	\$151.4	(0.269)	\$10.2	(0.146)	\$161.6
2085	\$581.9	\$72.1	\$653.9	\$156.7	(0.269)	\$10.5	(0.146)	\$167.2
2086	\$602.2	\$74.6	\$676.8	\$162.2	(0.269)	\$10.9	(0.146)	\$173.1
2087	\$623.3	\$77.2	\$700.5	\$167.9	(0.269)	\$11.3	(0.146)	\$179.1
2088	\$645.1	\$79.9	\$725.0	\$173.7	(0.269)	\$11.7	(0.146)	\$185.4
2089	\$667.7	\$82.7	\$750.4	\$179.8	(0.269)	\$12.1	(0.146)	\$191.9
2090	\$691.1	\$85.6	\$776.7	\$186.1	(0.269)	\$12.5	(0.146)	\$198.6
2091	\$715.3	\$88.6	\$803.8	\$192.6	(0.269)	\$12.9	(0.146)	\$205.6
2092	\$740.3	\$91.7	\$832.0	\$199.4	(0.269)	\$13.4	(0.146)	\$212.8
2093	\$766.2	\$94.9	\$861.1	\$206.3	(0.269)	\$13.9	(0.146)	\$220.2
2094	\$793.0	\$98.2	\$891.2	\$213.6	(0.269)	\$14.3	(0.146)	\$227.9
2095	\$820.8	\$101.6	\$922.4	\$221.0	(0.269)	\$14.8	(0.146)	\$235.9
2096	\$849.5	\$105.2	\$954.7	\$228.8	(0.269)	\$15.4	(0.146)	\$244.1
2097	\$879.3	\$108.9	\$988.1	\$236.8	(0.269)	\$15.9	(0.146)	\$252.7
2098	\$910.0	\$112.7	\$1,022.7	\$245.1	(0.269)	\$16.5	(0.146)	\$261.5
2099	\$941.9	\$116.6	\$1,058.5	\$253.7	(0.269)	\$17.0	(0.146)	\$270.7
2100	\$974.9	\$120.7	\$1,095.6	\$262.5	(0.269)	\$17.6	(0.146)	\$280.2

TABLE 11
PAST AND PROJECTED UNFUNDED LIABILITY PAYMENTS ON OCTOBER 1
(\$ in billions)

Calendar Year	Original UFL	Assumption Changes	Benefit Changes	Actuarial Experience	Total
1984*	\$9.500	\$.000	\$.000	\$.000	\$9.500
1985*	\$10.500	\$.000	\$.000	\$.000	\$10.500
1986*	\$11.042	\$.000	\$.000	(\$.518)	\$10.524
1987*	\$11.679	\$.000	(\$.113)	(\$1.281)	\$10.285
1988*	\$12.003	\$.135	(\$.112)	(\$2.244)	\$9.782
1989*	\$16.300	(\$2.116)	(\$.132)	(\$3.456)	\$10.596
1990*	\$17.237	(\$2.237)	(\$.140)	(\$4.078)	\$10.782
1991*	\$18.228	(\$2.366)	(\$.148)	(\$4.508)	\$11.206
1992*	\$22.621	(\$4.625)	(\$.171)	(\$5.552)	\$12.273
1993*	\$23.865	(\$4.880)	(\$.180)	(\$6.897)	\$11.908
1994*	\$25.177	(\$5.148)	(\$.189)	(\$8.370)	\$11.470
1995*	\$27.746	(\$6.619)	(\$.079)	(\$10.349)	\$10.699
1996*	\$33.456	(\$6.917)	(\$.042)	(\$11.346)	\$15.151
1997*	\$36.227	(\$8.529)	\$.048	(\$12.627)	\$15.119
1998*	\$37.676	(\$8.870)	\$.050	(\$13.606)	\$15.250
1999*	\$39.183	(\$9.201)	\$.052	(\$14.732)	\$15.302
2000*	\$42.098	(\$9.984)	\$.335	(\$16.360)	\$16.089
2001*	\$43.571	(\$9.862)	\$.472	(\$17.134)	\$17.047
2002	\$45.096	(\$10.059)	\$.661	(\$17.770)	\$17.928
2003	\$46.674	(\$10.356)	\$.691	(\$18.392)	\$18.617
2004	\$48.308	(\$10.718)	\$.715	(\$19.036)	\$19.269
2005	\$49.999	(\$11.093)	\$.740	(\$19.702)	\$19.944
2006	\$51.749	(\$11.481)	\$.766	(\$20.391)	\$20.643
2007	\$53.560	(\$11.883)	\$.793	(\$21.105)	\$21.365
2008	\$55.434	(\$12.299)	\$.820	(\$21.844)	\$22.111
2009	\$57.375	(\$12.730)	\$.849	(\$22.608)	\$22.886
2010	\$59.383	(\$13.175)	\$.879	(\$23.400)	\$23.687
2011	\$61.461	(\$13.636)	\$.909	(\$24.219)	\$24.515
2012	\$63.612	(\$14.114)	\$.941	(\$25.066)	\$25.373
2013	\$65.839	(\$14.607)	\$.974	(\$25.944)	\$26.262
2014	\$68.143	(\$15.119)	\$1.008	(\$26.852)	\$27.180
2015	\$70.528	(\$15.648)	\$1.044	(\$27.792)	\$28.132
2016	\$72.996	(\$16.196)	\$1.080	(\$28.764)	\$29.116
2017	\$75.551	(\$16.762)	\$1.118	(\$29.771)	\$30.136
2018	\$78.196	(\$17.349)	\$1.157	(\$30.813)	\$31.191
2019	\$80.932	(\$17.956)	\$1.198	(\$31.891)	\$32.283
2020	\$83.765	(\$18.585)	\$1.240	(\$33.008)	\$33.412
2021	\$86.697	(\$19.235)	\$1.283	(\$34.163)	\$34.582
2022	\$89.731	(\$16.318)	\$1.328	(\$16.194)	\$58.548
2023	\$92.872	\$.000	\$1.374	\$.000	\$94.246
2024	\$96.122	\$.000	\$1.422	\$.000	\$97.544
2025	\$99.487	\$.000	\$1.472	\$.000	\$100.959
2026	\$102.968	\$.000	\$1.524	\$.000	\$104.492
2027	\$106.572	\$.000	\$1.577	\$.000	\$108.149
2028	\$110.303	\$.000	\$1.632	\$.000	\$111.935
2029	\$114.163	\$.000	\$1.617	\$.000	\$115.780
2030	\$118.159	\$.000	\$.000	\$.000	\$118.159
2031	\$122.294	\$.000	\$.000	\$.000	\$122.294
2032	\$126.575	\$.000	\$.000	\$.000	\$126.575
2033	\$131.004	\$.000	\$.000	\$.000	\$131.004

*Actual data

TABLE 12
PAST AND PROJECTED UNFUNDED LIABILITY BALANCE ON SEPTEMBER 30 (Before Payment)
(\$ in billions)

Calendar Year	Original UFL	Assumption Changes	Benefit Changes	Actuarial Experience	Total
1984*	\$528.700	\$.000	\$.000	\$.000	\$528.700
1985*	\$553.500	\$.000	\$.000	(\$13.800)	\$539.700
1986*	\$578.800	\$.000	(\$3.000)	(\$34.200)	\$541.600
1987*	\$605.200	\$.000	(\$2.998)	(\$59.500)	\$542.702
1988*	\$632.700	(\$50.062)	(\$3.076)	(\$81.180)	\$498.382
1989*	\$664.173	(\$53.711)	(\$3.172)	(\$94.562)	\$512.728
1990*	\$693.224	(\$55.207)	(\$3.253)	(\$102.283)	\$532.481
1991*	\$723.306	(\$97.578)	(\$3.331)	(\$111.879)	\$510.518
1992*	\$757.959	(\$102.353)	(\$3.421)	(\$139.327)	\$512.858
1993*	\$790.488	(\$105.057)	(\$3.494)	(\$167.942)	\$513.995
1994*	\$824.120	(\$130.691)	(\$.968)	(\$201.052)	\$491.409
1995*	\$852.872	(\$134.017)	(\$.832)	(\$217.255)	\$500.768
1996*	\$880.822	(\$159.859)	\$.897	(\$231.424)	\$490.436
1997*	\$902.444	(\$162.883)	\$1.000	(\$244.673)	\$495.888
1998*	\$922.521	(\$164.057)	\$1.014	(\$259.976)	\$499.503
1999*	\$942.360	(\$169.827)	\$6.583	(\$277.940)	\$501.176
2000*	\$959.626	(\$164.942)	\$9.414	(\$284.168)	\$519.931
2001*	\$974.873	(\$160.596)	\$10.701	(\$285.393)	\$539.585
2002	\$989.509	(\$162.677)	\$13.391	(\$285.025)	\$555.198
2003	\$1003.439	(\$162.157)	\$13.525	(\$283.958)	\$570.849
2004	\$1016.562	(\$161.288)	\$13.636	(\$282.164)	\$586.746
2005	\$1028.770	(\$159.981)	\$13.729	(\$279.573)	\$602.945
2006	\$1039.945	(\$158.193)	\$13.801	(\$276.113)	\$619.438
2007	\$1049.958	(\$155.882)	\$13.849	(\$271.705)	\$636.220
2008	\$1058.673	(\$152.999)	\$13.872	(\$266.263)	\$653.284
2009	\$1065.941	(\$149.494)	\$13.868	(\$259.695)	\$670.621
2010	\$1071.601	(\$145.311)	\$13.833	(\$251.905)	\$688.218
2011	\$1075.482	(\$140.395)	\$13.763	(\$242.786)	\$706.064
2012	\$1077.397	(\$134.681)	\$13.658	(\$232.228)	\$724.146
2013	\$1077.147	(\$128.103)	\$13.512	(\$220.109)	\$742.447
2014	\$1074.515	(\$120.589)	\$13.321	(\$206.301)	\$760.946
2015	\$1069.270	(\$112.062)	\$13.083	(\$190.664)	\$779.626
2016	\$1061.163	(\$102.440)	\$12.791	(\$173.052)	\$798.463
2017	\$1049.928	(\$91.634)	\$12.443	(\$153.306)	\$817.431
2018	\$1035.275	(\$79.552)	\$12.033	(\$131.256)	\$836.501
2019	\$1016.897	(\$66.090)	\$11.556	(\$106.720)	\$855.642
2020	\$994.463	(\$51.143)	\$11.005	(\$79.506)	\$874.819
2021	\$967.616	(\$34.593)	\$10.375	(\$49.404)	\$893.995
2022	\$935.977	(\$16.318)	\$9.661	(\$16.194)	\$913.126
2023	\$899.136	\$.000	\$8.853	\$.000	\$907.990
2024	\$856.656	\$.000	\$7.947	\$.000	\$864.603
2025	\$808.067	\$.000	\$6.933	\$.000	\$815.000
2026	\$752.866	\$.000	\$5.802	\$.000	\$758.668
2027	\$690.517	\$.000	\$4.545	\$.000	\$695.062
2028	\$620.441	\$.000	\$3.154	\$.000	\$623.595
2029	\$542.022	\$.000	\$1.617	\$.000	\$543.639
2030	\$454.600	\$.000	\$.000	\$.000	\$454.600
2031	\$357.469	\$.000	\$.000	\$.000	\$357.469
2032	\$249.873	\$.000	\$.000	\$.000	\$249.873
2033	\$131.004	\$.000	\$.000	\$.000	\$131.004

*Actual data

The Military Retirement Fund Transaction Process

The description of deficit, debt, and funding impact contained in this section are applicable under the current practices of the federal government regarding budget accounting and tax policy. These practices do not provide for increases in taxes to fund the military retirement system beyond what is required to pay benefits to retirees and survivors each year, but do result in increases in the national debt. If current practices change, then this description would need to be revised.

A trust fund was created inside the Unified Budget of the federal government for the monies of the military retirement system. This fund has three sources of income: (1) normal cost payments made by DoD, (2) unfunded liability payments made by Treasury, and (3) interest earnings on investments in government securities made by Treasury and the payment of the par values of these securities at maturity. All three of these items are intragovernmental transfers consisting of debits from one government account and credits to another.

The fund has two types of payouts: (1) payments to retirees and survivors of retirees and (2) purchases of U.S. Treasury securities. The purchase of a Treasury security is also an intragovernmental transfer, while a payment to a retiree or a survivor is not.

Figure 1 on the following page depicts this process. The only transactions in a particular year that directly affect the deficit of the Unified Budget are those that pass in or out of the government, such as tax collections and retiree or survivor payments. The intragovernmental transfers are debits and credits within the federal budget, with no direct effect on the deficit. The following examples illustrate the process:

- If DoD debits \$17 billion in normal cost payments and the fund credits the \$17 billion, the net direct federal budget deficit effect is zero.
- If the fund purchases \$7 billion in securities (debit) and the Treasury sells \$7 billion in securities (credit), the net direct federal budget deficit effect is zero.
- If the Treasury pays \$700 million interest (debit) and the fund earns \$700 million interest (credit), the net direct federal budget deficit effect is zero.
- Disregarding all other government programs, if the government collects \$15 billion in tax revenues (credit) and pays \$17.3 billion to retirees (debit), the net direct federal budget deficit effect is \$2.3 billion.

UNIFIED BUDGET

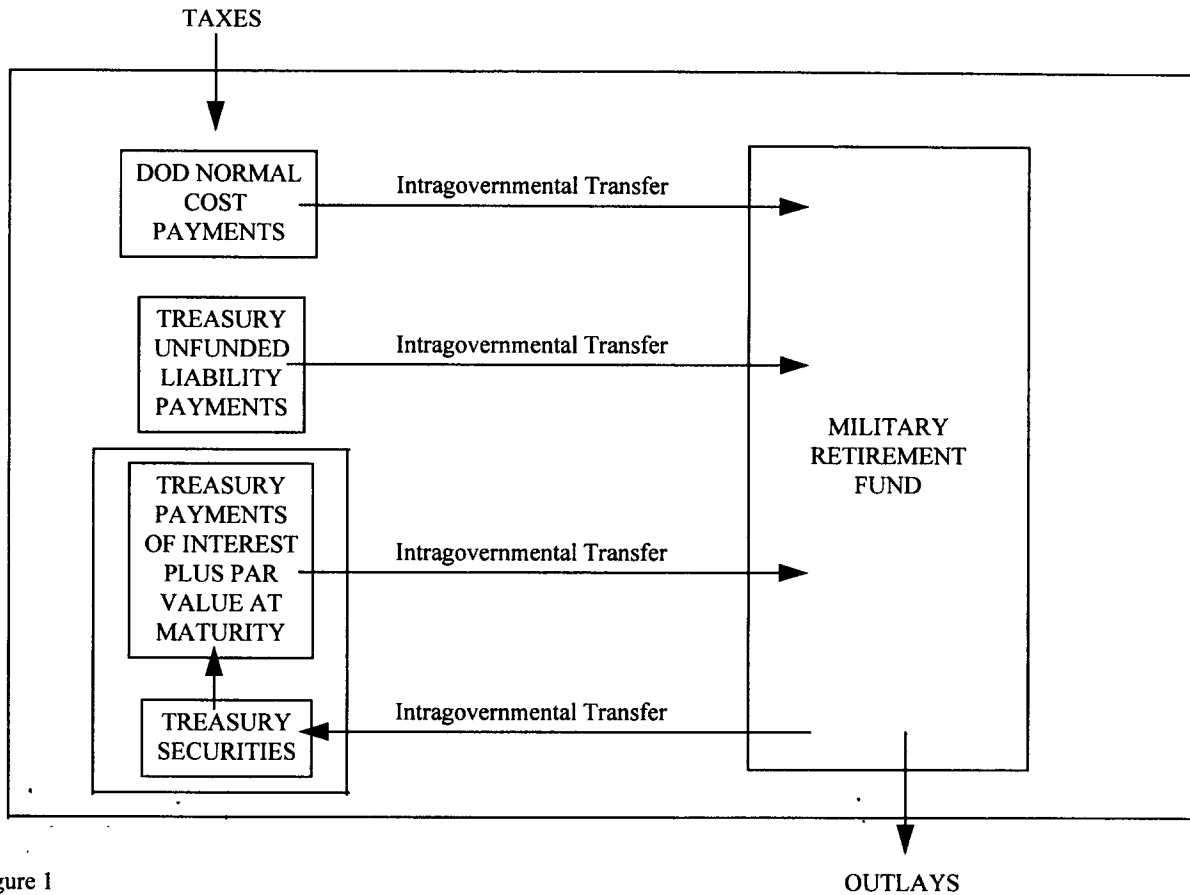


Figure 1

All of the intragovernmental transfers in Figure 1 will always generate both a credit and an associated equal debit within the Unified Budget. Consequently, under current federal budget accounting practices, contributions to the fund beyond what are required to pay benefits to retirees and survivors that year have no impact on the total federal deficit. Just as in the pay-as-you-go method, the only transactions that directly affect the deficit in the retirement system accounting process are payments to retirees and survivors.

On the other hand, the purchase of securities by the fund does increase the national debt, specifically the portion of the debt held by the government. The portion held by the public will not change. However, the total debt will increase and this might require an increase in the statutory borrowing authority.

Suppose that in the year 2001 the amount needed to pay retirees was \$33 billion and the military retirement fund had grown to \$154 billion. The following transactions would take place:

- Fund cashes in \$33 billion in securities (credit).
- Treasury pays \$33 billion to Fund (debit).
- Net federal surplus zero.

Since no budget surplus can be derived from using fund money, the government still has a need for \$33 billion to pay retirees—the same need it would have under the pay-as-you-go system. Accordingly, the fund cannot transfer liabilities from one tax year to another.

However, funding does have an effect on the DoD budget. With the normal cost payments in the DoD budget, policymakers now automatically consider the impact on future retirement costs when they make manpower decisions, and this could have a significant impact on future federal budgets. For example, if a decision were made today to double the size of the active duty and reserve forces, the DoD budget would automatically have an immediate increase in retirement obligations. Under the pay-as-you-go method, the retirement expenses would not necessarily be considered in the initial decision since they would not show up for 20 years.

The fact that costs are fully recognized in advance probably provides greater benefit security over the long term. Also, when there is a fund, the system is not as dependent on obtaining the necessary appropriation from Congress each year in order to pay benefits for that year. This can provide additional benefit security in the short run.

APPENDIX A

SUMMARY OF THE MILITARY RETIREMENT SYSTEM

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SUMMARY OF THE MILITARY RETIREMENT SYSTEM

As of September 30, 2001

Summary

The military retirement system applies to members of the Army, Navy, Marine Corps, and Air Force. However, most of the provisions also apply to retirement systems for members of the Coast Guard (administered by the Department of Transportation), officers of the Public Health Service (administered by the Department of Health and Human Services), and officers of the National Oceanic and Atmospheric Administration (administered by the Department of Commerce). Only those members in plans administered by the Department of Defense are included in this valuation.

The system is a funded, noncontributory defined benefit plan that includes nondisability retired pay, disability retired pay, retired pay for reserve service, and survivor annuity programs. The Service Secretaries approve immediate nondisability retired pay at any age with credit of at least 20 years of active-duty service. Reserve retirees must be 60 years old with 20 creditable years of service before retired pay commences. There is no vesting before retirement.

There are three distinct nondisability benefit formulas related to three populations within the military retirement system. *Final pay*: Military personnel who first became members of the armed services before September 8, 1980 have retired pay equal to (terminal basic pay) times (a multiplier). The multiplier is equal to (2.5 percent) times (years of service) and is limited to 75 percent. *High-3*: If the retiree first became a member of the armed services on or after September 8, 1980, the average of the highest 36 months of basic pay is used instead of terminal basic pay. *Redux*: Members first entering the armed services on or after August 1, 1986 are subject to a penalty if they retire with less than 30 years of service; at age 62, their retired pay is recomputed without the penalty. The FY 2000 Defense Authorization Act provided that Redux members now have a choice of (a) receiving High-3 benefits or (b) staying under the Redux formula and receiving a lump-sum \$30,000 payment. Members make their election during their fifteenth year of service. Those who choose the lump-sum payment must remain continuously on active duty until they complete 20 years of active duty service or forfeit a portion of the \$30,000.

Retiree and survivor benefits are automatically adjusted annually to protect the purchasing power of initial retired pay. The benefits associated with members first entering the armed services before August 1, 1986, or of those entering after the date but who elect to switch to the *High-3* benefit formula, are adjusted annually by the percentage increase in the average Consumer Price Index (CPI). This is commonly referred to as full CPI protection. Benefits associated with members entering on or after August 1, 1986 who elect the \$30,000 payment are annually increased by the percentage change in the CPI minus 1 percent. At the military member's age 62, the benefits are restored to the amount that would have been payable had full CPI protection

been in effect. This restoral is in combination with that described in the previous paragraph. However, after this restoral, partial indexing (CPI minus 1 percent) continues for life.

Nondisability Retirement From Active Service

The current system allows voluntary retirement upon completion of at least 20 years of service at any age, subject to Service Secretary approval. The military retiree receives immediate retired pay calculated as (base pay) times (a multiplier). Base pay is equal to terminal basic pay if the retiree first became a member of the armed services before September 8, 1980. It is equal to the average of the highest 36 months of basic pay for all other members. The multiplier is equal to (2.5 percent) times (years of service, rounded down to the nearest month) and is limited to 75 percent. Members first entering the armed services on or after August 1, 1986, who elect the \$30,000 payment and who retire with less than 30 years of service receive a temporary penalty until age 62. The penalty reduces the multiplier by one percentage point for each full year of service under 30. For example, the multiplier for a 20-year retiree would be 40 percent (50 percent minus 10 percent). At age 62, the retired pay is recomputed with the penalty removed.

In FY 2001, 1.37 million nondisability retirees from active duty were paid \$28.3 billion.

Disability Retirement

A disabled military member is entitled to disability retired pay if the member has at least 20 years of service, or the disability is at least 30 percent (under a standard schedule of rating disabilities by the Veterans Administration) and either (1) the member has eight years of service; (2) the disability results from active duty; or (3) the disability occurred in the line of duty during a time of war or national emergency or certain other time periods.

In disability retirement, the member receives retired pay equal to the larger of (1) the accrued nondisability retirement benefit, or (2) base pay multiplied by the rated percent of disability. The benefit cannot be more than 75 percent of base pay. Only the excess of (1) over (2) is subject to federal income taxes. Base pay is equal to terminal basic pay if the retiree first became a member of the armed services before September 8, 1980. If the retiree first entered the Services on or after September 8, 1980, base pay is equal to the average of the highest 36 months of basic pay.

Members whose disabilities may not be permanent are placed on a temporary-disability retired list and receive disability retirement pay just as if they were permanently disabled. However, they must be physically examined every 18 months for any change in disability. A final determination must be made within five years. The temporary disability pay is calculated like the permanent disability retired pay, except that it can be no less than 50 percent of base pay.

In FY 2001, 98,000 disability retirees were paid \$1.30 billion.

Reserve Retirement

Members of the reserves may retire after 20 years of creditable service, the last eight of which must be in a reserve component. However, reserve retired pay is not payable until age 60. Retired pay is computed as (base pay) times (2.5 percent) times (years of service). If the reservist was first a member of the armed services before September 8, 1980, base pay is defined as the active duty basic pay in effect for the retiree's grade and years of service at the time that retired pay begins. If the reservist first became a member of the armed services on or after September 8, 1980, base pay is the average basic pay for the member's grade in the highest 36 months that he/she was a member of the armed services. The years of service are determined by using a point system, where 360 points convert to a year of service. Typically, a point is awarded for a day of service or drill attendance, with 15 automatic points being awarded for a year's membership in a reserve component. A creditable year of service is one in which the member earned at least 50 points. A member cannot retire with less than 20 creditable years, although points earned in non-creditable years are used in the retirement calculation.

In FY 2001, 243,000 reserve retirees were paid \$2.61 billion.

Survivor Benefits

Legislation originating in 1953 provided optional survivor benefits. It was later referred to as the Retired Servicemen's Family Protection Plan (RSFPP). The plan proved to be expensive and inadequate since the survivor annuities were never adjusted for inflation and could not be more than 50 percent of retired pay. RSFPP was designed to be self-supporting in the sense that the present value of the reductions to retired pay equaled the present value of the survivor annuities.

On September 21, 1972, RSFPP was replaced by the Survivor Benefit Plan (SBP) for new retirees. RSFPP still covers those servicemen retired before 1972 who did not convert to the new plan and still pays survivor annuities.

Retired pay is reduced, before taxes, for the member's cost of SBP. Total SBP costs are shared by the Government and the retiree, so the reductions in retired pay are only a portion of the total cost of the SBP program.

The SBP survivor annuity is initially 55 percent of the member's base amount. The base amount is elected by the member, but cannot be less than \$300 or more than the member's full retired pay. If a penalty for service under 30 years is included in the calculation of retired pay, the maximum base amount is equal to the full retired pay without the penalty.

The spouse's annuity is considered a two-tier benefit because, at age 62, the annuity is reduced to 35 percent of the base amount. Prior to the enactment of the two-tier benefit, survivor annuities were integrated with Social Security. SBP participants and active and reserve personnel with at

least 20 years of service on October 1, 1985 were grandfathered into the two-tier system. Their survivors will be given the higher of the two annuities at age 62.

During FY 1987 the SBP program's treatment of survivor remarriages changed. Prior to the change, a surviving spouse remarrying before age 60 had the survivor annuity suspended. The change lowered the age to 55. (If the remarriage ends in divorce or death, the annuity is reinstated.)

Beginning in April 1992, retirees with base amounts equal to full retired pay could also elect a supplemental annuity for their surviving spouses after age 62, in increments of 5 percent of the base amount, up to a maximum 20 percent benefit. (The cost of this supplemental SBP benefit is borne by retirees in the form of a reduction in retired pay over and above the usual 6.5 percent reduction for SBP.)

Members who die in the line of duty or after completing 20 years of service are assumed to have retired on the day they died and to have elected full SBP coverage for spouses and/or children.

SBP annuities are reduced by any VA survivor benefits and all premiums relating to the reductions are returned to the survivor. Additionally, SBP annuities are annually increased with cost-of-living adjustments (COLAs). These COLAs may be based on full or partial CPI increases, depending on the benefit formula covering the member. If the member dies before age 62 and the survivor is subject to partial COLAs, the survivor's annuity is increased (on the member's 62nd birthday) to the amount that would have been payable had full COLAs been in effect. Partial COLAs continue annually thereafter.

For reserve retirees, the same set of retired pay reductions applies for survivor coverage after a reservist turns 60 and begins to receive retired pay. A second set of optional reductions, under the Reserve Component Survivor Benefit Plan, provides annuities to survivors of reservists who die before age 60, but after attaining 20 years of service. The added cost of this coverage is borne completely by reservists through deductions from retired pay and survivor annuities.

A paid-up provision eliminating the reduction in retired pay for SBP and RSFPP coverage will be effective October 1, 2008, for participants age 70 or older whose retired pay has been reduced for 30 years or more.

In FY 2001, 259,000 surviving families were paid \$1.96 billion.

Temporary Early Retirement Authority (TERA)

The National Defense Authorization Act for FY 1993 (P.L. 102-484) granted temporary authority for the military services to offer early retirements to members with more than 15 but less than 20 years of service. The retired pay was calculated in the usual way except that there was a reduction of 1 percent for every year below 20 years of service. Part or all of this reduction can be restored at age 62 if the retired member works in a qualified public service job

during the period from the date of retirement to the date on which the retiree would have completed 20 years of service. Unlike members who left military service before 20 years with voluntary separation incentives or special separation benefits, these early retirees are treated like regular military retirees for the purposes of other retirement fringe benefits. This authority expired at the end of 2001.

As of September 30, 2001, there were 55,000 TERA retirees receiving retired pay at an annual rate of \$694 million.

Cost-of-Living Increases

All nondisability retirement, disability retirement, and most survivor annuities are adjusted annually for inflation. Cost-of-living adjustments (COLAs) are automatically scheduled to occur every 12 months, on December 1st, to be reflected in checks issued at the beginning of January.

The “full” COLA effective December 1 is computed by calculating the percentage increase in the CPI from the third quarter of the prior calendar year to the third quarter of the current calendar year. The increase is based on the Urban Wage Earner and Clerical Worker Consumer Price Index (CPI-W) and is rounded to the nearest tenth of one percent.

The benefits of retirees (and their survivors) are increased annually with the full COLA, except for those first entering the armed services on or after August 1, 1986, electing the \$30,000. Their benefits are increased annually with a partial COLA equal to the full COLA minus 1 percent. A one-time restoral is given to a partial COLA recipient on the first day of the month after the retiree’s 62nd birthday. At this time, retired pay (or the survivor benefit if the retiree is deceased) is increased to the amount that would have been payable had full COLAs been in effect. Annual partial COLAs continue after this restoral.

Relationship with VA Benefits

The Department of Veterans Affairs (VA) provides compensation for Service-connected and certain non-Service-connected disabilities. These VA benefits can be in place of (or in combination with) DoD retired pay, but they are not additive. Since VA benefits are exempt from federal income taxes, it is often to the advantage of a member to elect them.

Veterans Administration benefits also overlap survivor benefits through the Dependency and Indemnity Compensation (DIC) program. DIC is payable to survivors of veterans who die from Service-connected causes. Although an SBP annuity must be reduced by the amount of any DIC benefit, all SBP premiums relating to the reduction in benefit are returned to the survivor.

Interrelationship with Other Federal Service

For retirement purposes, no credit is given for other federal service, except where cross-service transferability is allowed. Military service is generally creditable toward the federal civilian retirement systems if military retired pay is waived. However, a deposit (equal to a percentage of post-1956 basic pay, plus interest in some cases) must be made to the Civil Service Retirement Fund in order to receive credit. Military service is not generally creditable under both systems (except for reservists and certain disability retirees).

Relationship of Retired Pay to Military Compensation

Basic pay is the only element of military compensation upon which retired pay is computed and entitlement is determined. Basic pay is the principal element of military compensation that all members receive, but it is not representative, for comparative purposes, of salary levels in the public and private sectors. Reasonable comparisons can be made to regular military compensation (RMC). RMC is the sum of (1) basic pay, (2) cash or in kind allowances (the housing allowance, which varies by grade, location, and dependency status, and a subsistence allowance) and (3) the tax advantages accruing to allowances because they are not subject to federal income tax. Basic pay represents approximately 70 percent of RMC for all retirement eligibles. For the 20-year retiree, basic pay is approximately 68 percent of RMC. Consequently, a 20-year retiree may be entitled to 50 percent of basic pay, but only 34 percent of RMC. For a 30-year retiree, the corresponding entitlements are 75 percent of basic pay, but only 55 percent of RMC. These relationships should be considered when military retired pay is compared to compensation under other retirement systems.

Social Security Benefits

Many military members and their families receive monthly benefits indexed to the CPI from Social Security. As full participants in the Social Security system, military personnel are in general entitled to the same benefits and are subject to the same eligibility criteria and rules as other employees. Details concerning the benefits are covered in other publications.

Beginning in 1946, Congress enacted a series of amendments to the Social Security Act that extended some benefits to military personnel and their survivors. These “gratuitous” benefits were reimbursed out of the general fund of the U.S. Treasury. The Servicemen’s and Veterans’ Survivor Benefits Act brought members of the military into the contributory Social Security system effective January 1, 1957.

For the Old Age, Survivors, and Disability Insurance (OASDI) program, military members must contribute the employee portion of the OASDI payroll tax, with the federal government contributing the matching employer contribution. Only the basic pay of a military member

constitutes wages for social security purposes. One feature of OASDI unique to military personnel grants a noncontributory wage credit of (i) \$300 for each quarter between 1956 and 1978 in which such personnel received military wages and (ii) up to \$1,200 per year after 1977 (\$100 of credit for each \$300 of wages up to a maximum credit of \$1,200). The purpose of this credit is to take into account elements of compensation such as quarters and subsistence not included in wages for social security benefit calculation purposes. Under the 1983 Social Security amendments, the cost of the additional benefits resulting from the noncontributory wage credits for past service was met by a lump sum payment from general revenues, while the cost for future service will be met by payment of combined employer-employee tax on such credits as the service occurs.

Members of the military are also required to pay the Hospital Insurance (HI) payroll tax, with the federal government contributing the matching employer contribution. Medicare eligibility occurs at age 65, or earlier if the employee is disabled.

Performance Measures

During FY 2001, the Fund made disbursements to approximately two million retirees and annuitants. All checks are sent out on a monthly basis.

While there are many ways to measure the funding progress of a pension plan, the ratio of assets in the fund to the present value of future benefits for annuitants on the roll is commonly used. Here is what this ratio has been for the last sixteen years:

- a. September 30, 2001 = .34728
- b. September 30, 2000 = .35379
- c. September 30, 1999 = .35245
- d. September 30, 1998 = .33099
- e. September 30, 1997 = .32200
- f. September 30, 1996 = .31314
- g. September 30, 1995 = .30375
- h. September 30, 1994 = .30306
- i. September 30, 1993 = .28314
- j. September 30, 1992 = .27018
- k. September 30, 1991 = .25127
- l. September 30, 1990 = .21878
- m. September 30, 1989 = .19549
- n. September 30, 1988 = .16211
- o. September 30, 1987 = .11431
- p. September 30, 1986 = .07187

The weighted average yield of the Fund on September 30, 2001, was 7.6%.

APPENDIX B

HISTORY

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HISTORY OF MILITARY RETIREMENT AND RETIRED PAY ADJUSTMENTS¹

The principal motivations guiding the evolution of the military retirement system have been to ensure that (1) continued service in the armed forces is competitive with the alternatives, (2) promotion opportunities are kept open for young and able members, (3) some measure of economic security is made available to members after retirement from a military career, (4) a pool of experienced personnel is available for recall in times of war or national emergency, and (5) the costs of the system are reasonable. The history of the retirement system shows an interplay of these considerations.

History of Retired Pay and Disability

Provisions for the maintenance of disabled military members date to colonial days. The pilgrims at Plymouth provided in 1636 that any man sent forth as a soldier and returned maimed should be maintained by the colony during his life. In order to obtain enlistments in military expeditions against the Indians, the colonies promised to care for those who were disabled and had no means of earning a livelihood as well as providing aid for the indigent families of those fallen in conflict. Some of these precedents were continued in the first national pension law of August 26, 1776, which promised half pay for life, or during disability, to the disabled. After the Revolutionary War, a full disability pension for a noncommissioned officer or private soldier was fixed at five dollars per month, with commissioned officers being paid at one-half of their monthly pay. Initially the States administered disability pensions. However, in 1790, the Secretary of War became the principal pension administrator. In 1805, disability pensions were extended to those who received wounds in military service which subsequently became disabling.

Pensions based on service by itself were more controversial. Payments of half pay for life had been promised in 1780 by Congress for officers who served to the end of the War. However, the resulting claims were initially settled for less than full value and with a considerable amount of controversy. As the number of veterans declined, and the treasury increased, Congress became more generous. In 1818, an act was passed providing relief to

¹ Sections of this are excerpted from (1) *Defense Manpower Commission Staff Studies*, Volume V, U.S. Government Printing Office, 1976 and (2) *Military Compensation Background Papers*, Third Quadrennial Review of Military Compensation, U.S. Government Printing Office, 1976. For a fuller discussion of the early history of military pensions, see *History of Military Pension Legislation in the United States*, William H. Glasson, AMS Press, New York, N.Y. 1968.

Revolutionary War veterans in need. By 1832, it became full pay for life, regardless of need. In 1836, widows were included. This same pattern was followed for Service pensions for subsequent wars. However, each war was treated separately.

In 1849, the Bureau of Pensions was transferred to the newly established Department of the Interior, where it was to remain until the Veterans Administration was created in 1930. In 1855, authorization was given for involuntary separation with partial pay of Navy officers adjudged incapable, but not necessarily disabled. The outbreak of the Civil War brought further changes when it became necessary to retire older officers no longer fit for field duty. The vehicle was the act of August 3, 1861, the first major nondisability retirement act, which provided for the voluntary retirement of regular officers of all branches of Service after 40 years of duty, at the discretion of the President. Subsequent acts in 1861 and 1862 provided for involuntary retirements for age or years of service.

The 1861 act also established a military disability retirement system that covered the regular officers of all branches of Service. Army and Marine Corps officers were to be paid an amount equal to their "pay proper" plus four rations. Navy officers were paid slightly more. The act of March 2, 1867, authorized disability retirement for enlisted personnel of the Navy and Marine Corps.

Congress established two enduring retirement principles while reducing forces to a peacetime basis in 1870. The first permitted voluntary retirement of officers after 30 years of service upon approval by the President, and the second fixed retired pay at 75 percent of the officer's pay. The 75 percent applied to Army and Marine Corps officers, both disabled and nondisabled, and was extended to the Navy in 1873.

In 1885, the first nondisability retirement law for Army and Marine Corps enlistees was enacted. Paralleling the officer retirement laws, it provided for voluntary retirement at 30 years of service with 75 percent of pay of the grade in which retired, plus an allowance in lieu of quarters, fuel, and light. The law was extended to the Navy in 1899.

By the middle of World War I, the limit on the number of officers who could be placed on the retired list was causing promotion stagnation problems in the Navy. To alleviate the problem, Congress established selection boards for promotion to Rear Admiral, Captain, and Commanders on the basis of age-in-grade in 1916. Service-in-grade replaced age-in-grade in 1926. Those officers not selected for promotion were retired at 2 ½ percent of pay per year of service, not to exceed 75 percent of pay. This was the first recognition of length of service as well as grade in the computation of retired pay.

The act of 1916 also created the Fleet Naval Reserve, to provide a pool of experienced personnel who could be recalled to active duty in an emergency. While technically different than retirement, the practical effect was that it was possible for enlistees of the Navy and Marine

Corps to “retire” with as little as 16 years of service (raised to 20 in 1925) and become entitled to “retainer pay.”

By 1938, the Navy was again experiencing promotion stagnation problems caused by the large influx of officers in the World War I years. Almost all of these officers were in the same age and years of service groups. To remedy the situation, Congress extended the selection board process to all grades above Lieutenant (junior grade), set limits on years of service for Lieutenant Commanders through Captains, and provided for voluntary retirement at 20 years of service at the discretion of the President.

Following World War II, allegations of unfairness, inequity, and inefficiency in the existing disability retirement system became extensive. A new system for disability retirement was created by the Career Compensation Act of 1949. Under this system, all disabilities had to be rated under the standard schedule of rating disabilities in use by the Veterans Administration, and the resultant ratings became a factor in disability retired pay entitlement and taxability. The new system covered officer and enlisted personnel of both the regular and reserve components, and it authorized temporary as well as permanent disability retirements. The disability retirement system remains basically unchanged from the way it was enacted in 1949.

Meanwhile, the Officer Personnel Act of 1947 brought the Army and Air Force under a selection process similar to the Navy system. It also provided that those officers who failed promotion and were not eligible to retire would receive severance pay of two months per year of service, not to exceed two years' pay.

Standardized nondisability retirement laws for all Services were brought about by the Army and Air Force Vitalization Act of 1948. The act established 20 years as the minimum requirement for voluntary retirement, thereby placing the Army and Air Force on a par with the Navy. It also provided for the removal of substandard officers with severance pay equal to one month's pay per year of service, not to exceed one year's pay.

Public Law 96-513 changed the retired pay formula for persons who first became a service member after September 7, 1980. For this group the 2 ½ percent times years of service is multiplied by the average of the highest 36 months of pay, rather than by final pay.

Public Law 99-348, enacted July 1, 1986, made extensive changes in retired pay formula for persons entering service after July 31, 1986. These persons are credited with 2 percent for each of the first twenty years of service and 3 ½ percent for each of the next 10 years. At the member's age 62, the annuity is recomputed to equal the annuity that would have been in effect if a level 2 ½ percent had been used for each year of service. In addition, the cost-of-living adjustment for this group no longer keeps up with inflation, as described later.

Public Law 106-65, enacted October 1, 1999, enhanced benefits for military members previously covered by the REDUX benefit formula (those who entered service on or after August 1, 1986). At the 15 year-of-service mark, these (full-time) members now have the choice of remaining under the REDUX formula and receiving a \$30,000 bonus, which is not paid out of the Military Retirement Fund, or reverting to the more generous High-3 formula. Those who elect the bonus must commit to remaining continuously in service until completing 20 years or forfeit a portion of the \$30,000. Part-time reservists previously covered by REDUX do not have the option of electing the bonus, and so automatically revert to the High-3 benefit formula.

Cost-of-Living Adjustments

Prior to 1958, retired pay was generally increased in direct proportion to changes in active duty pay. The practice was discontinued with the act of May 1958, (P.L. 85-422) when it was realized that a single 6 percent cost-of-living increase would cost only \$35 million, as opposed to \$65 million for linking the retired pay to active duty pay. The 6 percent approximated the increase in the cost-of-living since 1955 when retired pay was last increased. In 1963, a permanent system of increasing retired pay (P.L. 88-132), based on a formula geared to increases in the cost-of-living, was adopted. In 1965, the adjustment mechanism was modified slightly (P.L. 89-132). This system granted cost-of-living increases whenever the Consumer Price Index (CPI) went up at least 3 percent and remained up for three months. The benefit increase was equal to the percentage rise in the CPI. In 1969 (P.L. 91-179), an additional 1 percent was added to compensate for the fact that five months lapsed between the time that the index increased 3 percent and the time that benefits increased.

Effective March 1977, cost-of-living adjustments were scheduled to occur every six months, on March 1 and September 1, to be reflected in checks issued those months and the additional 1 percent was eliminated (P.L. 94-440). The cost-of-living increase effective March 1 was computed by calculating the percentage increase (adjusted to the nearest tenth of a percent) in the CPI from the previous June to the previous December. Similarly, the cost-of-living increase effective September 1 was obtained by calculating the percentage increase in the June CPI over the CPI from the previous December.

In August 1981 (P.L. 97-35), once-a-year cost-of-living increases were implemented by eliminating the September increase. Full annual cost-of-living increases were given in March of each year based on the percentage increase in the CPI between the two previous Decembers.

In August 1982, P.L. 97-253 created a temporary deviation to the calculation and timing of the cost-of-living increase. Consequently, in FY83 the increase was delayed until April and the full increase of 3.9 percent was given only to survivors, disabled persons and nondisabled persons over age 61. Nondisabled retirees under age 62 received 3.3 percent instead of 3.9 percent.

Public Law 98-270, enacted in April 1984, eliminated the FY84 increase and modified the permanent law. Under the modified system the cost-of-living adjustment equals the percentage increase in the average of the CPIs for July, August, and September over the averaged indexes for the same three months of the prior year. These increases become effective for entitlements earned in December. Public Law 98-369 directed that entitlements for a particular month should be paid at the beginning of the subsequent month rather than at the end of the month of entitlement and became effective with the December 1984 adjustment.

Public Law 99-348, enacted July 1, 1986, changed the cost-of-living increase for members entering the service after July 31, 1986. Their retiree and survivor benefits are increased annually by the full cost-of-living adjustment minus 1 percent. A one-time catchup is given on the first day of the month after the *retiree's* 62nd birthday. At this time, the retiree benefit (or survivor benefit if the retiree is deceased) is increased to the amount that would have been payable had full adjustments been made. Annual partial increases continue after this catchup. For persons entering the service prior to August 1, 1986, full cost-of-living adjustments are still applied to the retiree and survivor benefits. Because of P. L. 106-65, full COLAs are now also applied to the retiree and survivor benefits of post July 31, 1986 entrants who do not elect to remain under the REDUX benefit formula. Retired pay increases from 1958 to the present time are shown in Table B-1 and basic pay increases are shown in Table B-2.

Funding of Retirement Benefits

Prior to 1935, the Navy had a pension fund which provided for payments to persons retired for disability whenever there was a sufficient amount in the fund. The income to the fund consisted of the Government's share of the proceeds from the sale of enemy or pirate ships captured by the Navy, and from interest received on fund investments. This fund was abolished in 1935, and the military retirement system moved to an unfunded or "pay-as-you-go" basis. Public Law 98-94 (currently Chapter 74 of Title 10, U.S.C.), signed in September 1983, established a military retirement fund starting October 1, 1984.

This funding law states that DoD will make normal cost payments into the fund and the Treasury Department will make payments from general revenues to amortize the unfunded liability. Public Law 99-661, enacted in November 1986, mandated that two separate normal cost percentages (NCPs) be used to compute the normal cost payment of the military retirement system. One NCP is for active-duty personnel and reservists (full-time) and the second NCP is for drilling reservists (part-time). These normal cost payments are designed to be sufficient to pay for the future retirement benefits for a cohort of new entrants. The unfunded liability exists primarily because such payments were not made in the past.

The original funding law also established an independent three-member DoD Retirement Board of Actuaries, appointed by the President. The Board is required to set assumptions for determining the normal cost and unfunded liability, to review valuations of the military retirement system, to determine the method of amortizing unfunded liabilities, to annually report to the Secretary of Defense, and to report to the President and the Congress on the status of the fund not less than every four years.

TABLE B-1

**MILITARY RETIRED PAY COST-OF-LIVING INCREASES
(JUNE 1958 TO PRESENT)**

<u>Date of Increase</u>		<u>Percentage Increase</u>	<u>Cumulative % From Date of Increase</u>
6/1/58		6.0%	560.2%
10/1/63		5.0%	522.9%
9/1/65		4.4%	493.2%
12/1/66		3.7%	468.2%
4/1/68		3.9%	447.9%
2/1/69		4.0%	427.4%
11/1/69		5.3%	407.1%
8/1/70		5.6%	381.6%
6/1/71		4.5%	356.0%
7/1/72	one percent over inflation was added during these years	4.8%	336.4%
7/1/73		6.1%	316.4%
1/1/74		5.5%	292.5%
7/1/74		6.3%	272.0%
1/1/75		7.3%	249.9%
8/1/75		5.1%	226.1%
3/1/76		5.4%	210.3%
3/1/77		4.8%	194.4%
9/1/77		4.3%	180.9%
3/1/78		2.4%	169.3%
9/1/78	twice-a-year increases	4.9%	163.0%
3/1/79		3.9%	150.7%
9/1/79		6.9%	141.3%
3/1/80		6.0%	125.8%
9/1/80		7.7%	113.0%
3/1/81	once-a-year	4.4%	97.8%
3/1/82	increases	8.7%	89.4%
4/1/83	(Dec to Dec)	3.9% (1)	74.3%
12/1/84		3.5% (2)	67.7%
12/1/85		0.0% (3)	62.0%
12/1/86	once-a-year increases (3rd qtr to 3rd qtr)	1.3%	62.0%
12/1/87		4.2%	60.0%
12/1/88		4.0%	53.5%
12/1/89		4.7%	47.6%
12/1/90		5.4%	41.0%
12/1/91		3.7%	33.8%
12/1/92		3.0%	29.0%
3/1/94		2.6% (4)	25.2%
3/1/95		2.8% (5)	22.1%
3/1/96		2.6% (6)	18.7%
12/1/96		2.9%	15.7%
12/1/97		2.1%	12.5%
12/1/98		1.3%	10.2%
12/1/99		2.4%	8.7%
12/1/00		3.5%	6.2%
12/1/01		2.6%	2.6%

(1) Nondisabled retirees under age 62 received 3.3%.

(2) Starting December 1984, entitlements earned in a particular month are paid at the beginning of the next month.

(3) A cost-of-living adjustment of 3.1%, scheduled for 12/1/85, was suspended as a consequence of P.L. 99-177.

(4) Disabled retirees and survivors received 2.6% on 12/1/93.

(5) Disabled retirees and survivors received 2.8% on 12/1/94.

(6) Disabled retirees and survivors received 2.6% on 12/1/95.

TABLE B-2
MILITARY BASIC PAY SCALE INCREASES
(JUNE 1958 TO PRESENT)

<u>Date of Increase</u>	<u>Percentage Increase</u>	<u>Cumulative % From</u> <u>Date of Increase</u>
6/1/58	8.3%	906.2%
10/1/63	14.2%	829.1%
9/1/64	2.3%	713.6%
9/1/65	10.4%	695.3%
7/1/66	3.2%	620.4%
10/1/67	5.6%	598.0%
7/1/68	6.9%	561.0%
7/1/69	12.6%	518.4%
1/1/70	8.1%	449.2%
1/1/71	7.9%	408.0%
11/14/71	11.6%	370.8%
1/1/72	7.2%	321.9%
10/1/72	6.7%	293.5%
10/1/73	6.2%	268.8%
10/1/74	5.5%	247.3%
10/1/75	5.0%	229.2%
10/1/76	3.6%	213.5%
10/1/77	6.2%	202.6%
10/1/78	5.5%	185.0%
10/1/79	7.0%	170.1%
10/1/80	11.7%	152.4%
10/1/81	14.3% (1)	126.0%
10/1/82	4.0% (2)	97.7%
1/1/84	4.0% (2)	90.1%
1/1/85	4.0%	82.8%
10/1/85	3.0%	75.8%
1/1/87	3.0%	70.6%
1/1/88	2.0%	65.7%
1/1/89	4.1%	62.4%
1/1/90	3.6%	56.0%
1/1/91	4.1%	50.6%
1/1/92	4.2%	44.7%
1/1/93	3.7%	38.8%
1/1/94	2.2%	33.9%
1/1/95	2.6%	31.0%
1/1/96	2.4%	27.7%
1/1/97	3.0%	24.7%
1/1/98	2.8%	21.1%
1/1/99	3.6%	17.8%
1/1/00	4.8%	13.7%
1/1/01	3.7%	8.5%
1/1/02	4.6%	4.6%

(1) Basic pay increases for enlisted personnel ranged from 10% for E-1; 10.7% for E-2, E-3; 13% for E-4; 16.5% for E-5, E-6; and 17% for E-7, E-8, E-9. For officers, the increase was 14.3%.

(2) Except for E-1 with less than 4 months service.

APPENDIX C

VALUATION POPULATION DATA

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Officers Average Monthly Active Duty Basic Pay by Active Years of Service and Age for FY2001 Valuation

Age	Years of Active Service																																
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+	Avg	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	1,865	1,865	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,865	
20	1,921	1,865	2,138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,910	
21	2,093	2,141	2,232	2,414	2,628	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,104	
22	2,095	2,115	2,232	2,419	2,446	3,650	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,105	
23	2,119	2,115	2,321	2,523	2,475	2,673	0	3,825	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,128	
24	2,147	2,146	2,706	2,813	2,652	2,597	2,623	2,978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,333	
25	2,198	2,233	2,726	3,132	3,096	2,710	2,652	2,698	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,693	
26	2,434	2,341	2,771	3,161	3,547	3,046	2,768	2,694	2,870	4,383	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,049	
27	2,590	2,532	2,817	3,186	3,547	3,563	3,229	2,968	2,941	2,826	0	4,131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,258	
28	2,513	2,580	2,952	3,166	3,522	3,598	3,740	3,285	3,045	2,889	3,047	2,639	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,380	
29	2,694	2,671	3,057	3,241	3,457	3,566	3,767	3,743	3,335	3,068	3,110	3,044	4,383	4,490	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,466	
30	2,794	2,800	3,073	3,282	3,514	3,524	3,736	3,807	3,906	3,987	3,125	3,120	3,186	3,784	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,559	
31	2,887	2,888	3,143	3,333	3,561	3,563	3,707	3,834	3,962	3,914	3,466	3,267	3,160	3,323	3,287	2,748	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,660	
32	3,076	3,061	3,309	3,429	3,639	3,650	3,823	3,795	3,970	4,020	4,187	3,583	3,401	3,281	3,451	2,872	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,791	
33	3,348	2,991	3,477	3,606	3,706	3,626	3,893	3,931	3,988	4,081	4,243	4,384	3,650	3,390	3,435	3,520	4,058	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,932	
34	3,315	3,365	3,563	3,794	3,784	3,712	3,906	4,009	4,078	4,095	4,257	4,506	4,606	3,701	3,565	3,436	3,548	3,673	0	0	0	0	0	0	0	0	0	0	0	0	0	4,096	
35	3,397	3,129	3,628	3,887	3,912	4,013	4,058	4,148	4,171	4,269	4,526	4,684	4,633	3,764	3,589	3,656	3,694	4,463	0	0	0	0	0	0	0	0	0	0	0	0	0	4,250	
36	3,708	3,409	3,892	3,824	4,100	3,944	4,038	4,084	4,232	4,235	4,411	4,466	4,679	4,761	4,743	3,928	3,749	3,830	3,898	3,944	0	0	0	0	0	0	0	0	0	0	0	0	4,381
37	3,595	3,412	4,017	4,106	4,097	4,149	4,246	4,233	4,354	4,284	4,474	4,541	4,684	4,768	4,863	4,804	4,080	3,914	3,958	4,018	4,277	0	0	0	0	0	0	0	0	0	0	4,517	
38	3,993	3,503	3,965	4,087	4,136	4,265	4,326	4,301	4,428	4,348	4,518	4,578	4,692	4,718	4,841	4,959	5,077	4,251	4,063	4,104	4,272	4,385	0	0	0	0	0	0	0	0	0	4,654	
39	3,586	3,426	3,906	4,131	4,248	4,115	4,258	4,355	4,464	4,489	4,575	4,586	4,719	4,838	4,818	4,926	5,215	5,291	4,412	4,252	4,348	4,430	3,997	0	0	0	0	0	0	0	0	4,841	
40	3,627	3,195	3,643	4,229	4,218	4,135	4,347	4,479	4,497	4,455	4,573	4,621	4,778	4,877	4,938	4,918	5,209	5,420	5,443	4,635	4,420	4,418	4,572	4,729	0	0	0	0	0	0	0	5,014	
41	3,826	3,044	3,669	3,841	4,278	4,212	4,494	4,543	4,558	4,516	4,632	4,695	4,731	4,860	4,979	4,959	5,161	5,371	5,589	5,556	4,714	4,552	4,566	4,681	4,290	0	0	0	0	0	0	5,161	
42	3,790	3,598	3,581	4,244	4,455	4,417	4,418	4,379	4,388	4,699	4,606	4,757	4,812	4,828	4,988	5,142	5,201	5,286	5,483	5,633	5,803	4,916	4,651	4,755	4,784	4,618	0	0	0	0	0	5,297	
43	3,544	3,622	3,655	4,045	4,311	4,481	4,641	4,561	4,656	4,560	4,876	4,800	4,912	5,041	5,018	5,125	5,364	5,489	5,476	5,573	5,858	5,973	5,137	4,894	4,915	4,960	5,151	0	0	0	0	5,448	
44	4,041	3,522	3,902	4,390	4,239	4,245	4,408	4,633	4,838	4,619	4,613	4,992	5,040	5,091	5,202	5,376	5,519	5,608	5,552	5,797	6,025	6,426	5,173	4,948	5,001	5,124	4,864	4,490	0	0	0	5,622	
45	4,588	3,329	4,090	4,150	4,574	4,176	4,626	4,489	4,571	4,566	4,732	4,873	5,003	4,997	5,198	5,145	5,356	5,549	5,741	5,818	5,850	6,001	6,488	6,600	5,440	5,154	5,285	5,187	5,623	0	0	5,807	
46	3,656	3,680	4,055	4,328	4,263	4,362	4,658	4,968	4,789	4,634	5,034	5,036	5,064	5,136	5,228	5,315	5,418	5,609	5,594	5,822	6,042	5,985	6,434	6,729	6,759	5,542	5,407	5,365	5,386	5,077	0	6,000	
47	3,644	2,969	4,055	4,344	4,573	4,289	4,660	4,503	4,547	4,875	4,779	5,005	5,079	5,120	5,043	5,438	5,516	5,651	5,810	5,837	6,160	6,342	6,393	6,595	6,839	6,963	5,577	5,640	5,548	5,533	6,239	6,140	
48	4,495	3,826	4,445	4,775	4,105	4,722	5,031	4,535	4,626	4,852	5,007	4,695	5,095	5,221	5,255	5,375	5,579	5,681	5,846	5,922	6,118	6,347	6,526	6,514	6,794	6,927	7,220	6,032	5,626	5,669	5,740	6,319	
49	6,239	4,026	4,276	4,204	5,007	4,439	4,856	4,838	5,013	4,866	4,810	4,999	5,080	5,429	5,425	5,441	5,469	5,891	5,824	6,206	6,342	6,793	6,895	6,789	6,904	7,246	7,386	6,104	5,657	6,083	6,462	6,814	
50	3,721	5,076	4,445	4,944	3,891	4,272	4,919	4,980	5,376	5,164	4,967	4,910	5,403	5,321	5,437	5,582	5,691	5,884	6,001	5,995	6,181	6,407	6,582	6,728	6,887	6,820	7,133	7,349	7,566	6,122	6,169	6,591	
51	3,985	6,057	4,974	4,280	7,646	5,449	5,080	4,918	4,870	4,805	5,410	5,311	5,214	5,488	5,459	5,938	5,644	5,874	6,074	6,065	6,373	6,131	6,623	6,842	6,839	6,786	7,095	7,179	7,632	7,694	6,610	6,765	
52	4,125	3,727	6,708	4,855	4,137	4,801	6,947	4,428	5,658	4,739	5,609	5,078	5,309	5,445	5,678	5,778	5,954	5,754	6,175	6,139	6,297	6,318	6,639	6,798	7,018	7,006	7,122	6,946	7,382	7,771	7,440	6,801	
53	6,242	5,009	6,431	4,614	5,082	5,140	4,504	5,660	5,521	5,627	5,171	4,883	5,461																				

Enlisted Average Monthly Active Duty Basic Pay by Active Years of Service and Age for FY2001 Valuation

[illegible]

Notes: Basic pay figures reflect the July, 2001, pay table, increased by 4.6%.
Basic pay figures have not been adjusted to budget.
Age is age nearest birthday.

All DOD Average Monthly Active Duty Basic Pay by Active Years of Service and Age for FY2001 Valuation

Age	Years of Active Service																															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+	Avg
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1,094	1,181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,095
18	1,100	1,241	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,102
19	1,126	1,251	1,349	1,363	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,166
20	1,167	1,257	1,397	1,534	1,271	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,253
21	1,215	1,265	1,408	1,554	1,749	1,975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,351
22	1,274	1,276	1,425	1,560	1,680	1,796	1,773	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,443
23	1,403	1,432	1,440	1,567	1,684	1,726	1,848	2,777	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,539
24	1,396	1,582	1,710	1,581	1,691	1,729	1,836	2,124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,645
25	1,360	1,547	1,911	1,936	1,706	1,734	1,835	1,871	2,028	1,795	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,763
26	1,437	1,489	1,831	2,200	2,169	1,758	1,845	1,873	2,017	2,220	2,164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,897
27	1,537	1,566	1,758	2,101	2,468	2,244	1,887	1,890	2,016	2,047	2,037	4,131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,017
28	1,488	1,640	1,828	1,966	2,323	2,553	2,460	1,935	2,025	2,050	2,178	2,232	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,113
29	1,574	1,705	1,914	2,074	2,192	2,405	2,768	2,497	2,076	2,068	2,179	2,236	2,475	3,312	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,218
30	1,626	1,732	1,909	2,131	2,256	2,328	2,650	2,862	2,604	2,132	2,196	2,220	2,366	2,708	2,338	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,320
31	1,675	1,786	1,991	2,101	2,357	2,368	2,558	2,780	3,007	2,665	2,269	2,339	2,432	2,571	2,748	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,427
32	1,722	1,892	2,127	2,180	2,227	2,465	2,687	2,669	2,966	3,064	2,881	2,317	2,361	2,407	2,526	2,544	2,432	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,541
33	1,853	1,927	2,141	2,310	2,250	2,335	2,760	2,744	2,799	2,981	3,232	2,987	2,915	2,424	2,505	2,570	2,759	2,647	0	0	0	0	0	0	0	0	0	0	0	0	0	2,627
34	1,838	2,088	2,217	2,383	2,309	2,359	2,615	2,787	2,864	2,850	3,211	3,417	3,138	2,486	2,507	2,546	2,683	2,970	2,134	0	0	0	0	0	0	0	0	0	0	0	0	2,723
35	1,890	1,883	2,219	2,467	2,409	2,388	2,580	2,781	2,946	2,993	3,057	3,331	3,643	3,165	2,554	2,553	2,668	2,765	3,093	0	0	0	0	0	0	0	0	0	0	0	0	2,821
36	2,313	2,141	2,218	2,285	2,533	2,449	2,711	2,712	2,846	3,066	3,100	3,139	3,537	3,659	3,141	2,604	2,671	2,776	2,906	2,947	2,768	0	0	0	0	0	0	0	0	0	0	2,915
37	2,647	2,653	2,355	2,449	2,522	2,506	2,690	2,789	2,855	2,987	3,129	3,158	3,289	3,399	3,394	3,325	3,493	3,621	3,385	2,815	2,856	2,905	3,110	3,242	0	0	0	0	0	0	0	3,001
38	2,789	3,005	2,756	2,479	2,542	2,568	2,790	2,795	2,941	2,957	3,096	3,333	3,388	3,355	3,493	3,621	3,385	2,815	2,856	2,905	3,110	3,242	0	0	0	0	0	0	0	0	0	3,100
39	2,719	2,917	3,170	3,005	2,364	2,680	2,734	2,795	3,046	3,063	3,152	3,186	3,338	3,374	3,314	3,493	3,762	3,519	2,904	2,888	3,092	3,267	3,389	0	0	0	0	0	0	0	0	3,213
40	2,996	2,881	3,149	3,396	2,915	2,569	2,828	2,866	3,028	3,085	3,214	3,225	3,279	3,408	3,322	3,402	3,703	3,885	3,616	2,948	3,114	3,246	3,503	3,776	0	0	0	0	0	0	0	3,378
41	2,890	2,754	3,121	3,180	3,583	2,952	2,906	2,812	3,040	3,109	3,177	3,202	3,299	3,293	3,459	3,391	3,497	3,751	3,962	3,724	3,176	3,271	3,489	3,661	3,922	0	0	0	0	0	0	3,539
42	2,798	2,814	3,087	3,470	3,491	3,734	3,152	2,782	2,899	3,195	3,166	3,263	3,472	3,383	3,320	3,431	3,492	3,581	3,828	4,078	4,245	3,353	3,512	3,689	3,927	4,225	4,248	0	0	0	0	3,713
43	2,712	3,084	3,166	3,278	3,382	3,689	3,976	3,266	2,862	3,081	3,376	3,103	3,410	3,461	3,387	3,484	3,650	3,700	3,665	3,913	4,586	4,588	3,706	3,966	4,090	4,635	0	0	0	0	0	3,889
44	2,919	3,072	3,262	3,374	3,581	3,461	3,682	4,029	3,690	3,121	3,120	3,371	3,380	3,379	3,511	3,558	3,598	3,742	3,773	3,747	4,416	4,904	5,291	3,816	3,979	4,090	4,462	4,331	4,490	0	0	4,087
45	3,791	2,821	3,190	3,474	3,836	3,596	4,126	3,706	3,871	3,663	3,374	3,489	3,562	3,606	3,503	3,703	3,644	3,709	3,829	3,860	4,253	4,722	5,610	5,464	4,194	4,132	4,520	4,488	4,614	0	0	4,300
46	2,959	2,724	3,163	3,260	3,317	3,500	3,578	3,780	3,740	4,018	3,842	3,713	3,609	3,523	3,574	3,558	3,620	3,706	3,752	3,955	4,506	4,595	5,265	5,817	5,813	4,368	4,487	4,541	4,532	4,616	0	4,477
47	3,570	2,791	3,263	3,668	3,728	3,146	3,895	3,628	3,616	4,113	3,966	3,949	3,657	3,504	3,356	3,698	3,921	3,795	3,921	3,926	4,704	4,981	5,105	5,516	6,235	6,094	4,655	4,675	4,659	4,698	4,911	4,730
48	4,125	3,266	3,733	3,990	3,766	3,701	4,839	3,475	3,672	4,228	3,906	3,983	3,790	3,804	3,659	3,733	3,800	3,794	3,848	4,103	4,578	5,056	5,368	5,234	6,190	6,391	6,627	5,032	4,673	4,743	5,168	4,960
49	2,736	3,409	4,014	3,338	4,195	3,865	4,358	3,806	4,282	4,206	4,147	4,083	4,158	3,980	3,554	3,849	3,863	3,949	4,069	4,145	4,849	4,895	5,566	5,604	5,822	6,187	6,671	6,851	4,949	4,716	5,593	5,121
50	3,087	3,549	3,476	4,048	3,557	3,525	4,130	4,452	4,432	4,533	4,270	4,353	4,017	4,299	3,819	3,851	3,815	4,098	4,167	4,205	4,639	5,088	5,502	5,400	5,977	6,021	6,425	6,879	6,969	4,916	5,733	5,237
51	3,369	3,751	3,953	3,237	4,173	4,980	4,219	3,924	3,941	4,204	4,156	4,093	4,218	4,127	4,320	4,008	3,754	3,979	4,074	4,298	4,774	5,017	5,793	5,994	5,976	6,179	6,581	7,069	7,211	6,471	5,431	
52	3,230	3,094	4,231	4,597	3,155	3,828	5,095	3,560	5,000	4,148	4,769	3,821	4,238	3,930	4,159	4,340	4,542	4,107	4,368	4,225	4,362	5,163	5,572	5,483	6,026	6,143	6,274	6,403	6,923	7,288	7,284	5,497
53	5,843	3,500																														

Officers Active Duty Personnel by Years of Service and Age for FY2001 Valuation

Years Of Active Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	4	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0
21	786	15	27	8	4	0	0	0	0	0	0	0	0	0	0	0
22	1,325	104	39	6	12	1	0	0	0	0	0	0	0	0	0	0
23	2,331	2,489	106	31	26	17	0	1	0	0	0	0	0	0	0	0
24	1,420	3,999	2,525	81	39	42	16	2	0	0	0	0	0	0	0	0
25	668	1,963	3,666	2,465	79	56	48	28	0	0	0	0	0	0	0	0
26	591	803	1,740	3,633	2,139	126	60	78	43	1	0	0	0	0	0	0
27	553	676	882	1,847	3,133	1,891	187	103	123	71	0	0	0	0	0	0
28	333	615	691	843	1,617	2,707	1,753	199	160	182	94	1	0	0	0	0
29	300	487	614	759	906	1,466	2,529	1,605	272	230	252	202	1	1	0	0
30	237	390	436	642	770	938	1,540	2,451	1,496	328	306	387	275	4	0	0
31	179	311	396	444	698	789	950	1,564	2,406	1,597	366	343	511	321	4	1
32	150	233	328	325	371	621	753	877	1,509	2,290	1,351	330	416	522	335	7
33	142	201	221	221	247	327	554	602	768	1,398	1,846	1,298	326	461	598	337
34	93	176	174	199	197	230	320	451	547	703	1,330	1,797	1,329	368	476	625
35	96	112	123	181	158	164	207	313	461	608	712	1,199	2,126	1,304	400	486
36	63	147	106	115	151	133	200	194	286	477	542	673	1,509	1,983	1,258	401
37	56	109	99	109	109	118	129	169	194	315	410	504	799	1,461	1,951	1,435
38	43	90	80	104	96	86	105	116	167	217	296	452	620	861	1,286	1,935
39	36	66	67	74	56	87	75	84	139	169	211	285	400	573	736	1,248
40	49	63	50	66	62	70	72	74	102	121	168	186	261	398	545	765
41	26	41	43	48	55	49	71	53	93	97	115	135	199	238	428	540
42	17	26	32	35	42	60	49	48	51	81	98	106	160	188	236	372
43	10	31	32	39	25	36	42	42	41	60	78	71	116	131	189	272
44	13	26	24	15	23	30	32	40	42	48	59	76	76	95	144	209
45	16	13	14	15	20	27	36	38	41	50	69	67	83	100	103	178
46	7	4	9	10	13	14	16	26	24	49	42	68	77	72	89	125
47	14	10	5	17	11	6	24	15	22	38	43	57	63	66	67	102
48	5	8	8	4	8	10	13	11	16	38	20	29	44	63	64	92
49	1	9	8	7	7	5	12	9	16	23	30	38	32	39	47	77
50	3	3	5	7	4	4	8	8	13	15	23	30	25	32	39	67
51	4	1	6	2	2	9	7	5	4	16	14	16	22	24	33	32
52	2	3	3	8	5	9	2	6	8	13	22	13	24	16	23	30
53	4	2	2	5	4	7	4	7	7	13	9	10	21	23	17	24
54	2	1	3	8	5	5	7	10	7	11	7	10	17	14	19	30
55	2	2	4	3	4	3	5	7	7	2	9	7	12	19	16	14
56	1	1	2	4	2	3	1	10	4	5	6	3	8	8	7	6
57	1	1	1	1	2	3	2	4	3	7	3	10	5	4	4	10
58	1	1	2	0	0	3	2	0	1	3	5	4	5	5	4	6
59	1	1	1	1	2	0	2	2	1	1	2	6	2	5	4	4
60+	0	0	1	2	2	0	3	3	3	3	6	10	13	14	13	12
Total	9,589	13,240	12,576	12,430	11,106	10,152	9,836	9,255	9,077	9,280	8,544	8,426	9,567	9,413	9,135	9,442

Notes: Numbers have been adjusted to budget.
Age is age nearest birthday.

Officers Active Duty Personnel by Years of Service and Age for FY2001 Valuation

Age	Years Of Active Service															Total
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	840
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,487
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,001
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,124
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,973
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,214
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,469
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,195
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,624
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,200
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,880
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,418
33	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,596
34	364	34	0	0	0	0	0	0	0	0	0	0	0	0	0	9,385
35	649	347	4	0	0	0	0	0	0	0	0	0	0	0	0	9,650
36	549	728	335	7	0	0	0	0	0	0	0	0	0	0	0	9,857
37	376	582	703	316	12	0	0	0	0	0	0	0	0	0	0	9,946
38	1,493	457	571	575	319	4	0	0	0	0	0	0	0	0	0	9,973
39	1,873	1,539	441	432	429	237	7	0	0	0	0	0	0	0	0	9,264
40	1,176	1,929	1,486	394	346	323	219	6	0	0	0	0	0	0	0	8,931
41	692	1,183	1,755	1,491	273	264	315	213	8	0	0	0	0	0	0	8,425
42	538	644	1,157	1,757	1,095	186	203	297	160	5	0	0	0	0	0	7,643
43	389	510	615	1,014	1,268	939	167	185	261	132	6	0	0	0	0	6,701
44	273	378	522	601	711	985	938	163	176	182	112	4	1	0	0	5,998
45	188	252	365	488	419	542	882	720	140	135	173	92	4	0	0	5,270
46	144	192	259	367	321	329	461	737	616	131	106	118	60	5	0	4,491
47	149	132	200	248	261	234	266	394	697	575	95	116	120	62	1	4,110
48	94	114	143	216	179	211	231	212	401	602	476	91	85	91	29	3,608
49	98	105	135	154	138	128	170	167	169	293	456	412	72	97	68	3,022
50	68	87	120	110	85	101	116	105	127	165	221	356	297	56	94	2,394
51	46	65	80	94	74	73	73	86	94	107	107	199	278	258	144	1,975
52	49	74	79	68	40	53	50	53	57	62	93	98	177	240	214	1,594
53	33	39	64	73	44	43	41	44	47	64	63	68	93	123	263	1,261
54	28	40	38	56	45	35	32	37	36	37	38	58	73	54	255	1,018
55	30	31	29	35	37	34	31	23	33	21	27	35	46	59	238	817
56	13	13	13	30	23	23	20	18	14	19	21	18	19	27	112	454
57	5	11	18	22	13	14	12	12	17	12	11	14	6	10	82	320
58	9	10	15	15	9	12	8	10	9	9	7	9	7	8	46	225
59	13	12	10	10	9	4	7	9	7	8	5	4	5	3	39	180
60+	18	20	23	17	11	13	16	9	10	14	7	7	4	4	39	297
Total	9,360	9,500	9,180	8,590	6,161	4,787	4,265	3,500	3,079	2,573	2,024	1,699	1,347	1,097	1,616	229,846
Average YAS 11.01																
Average Age 35.32																

Notes: Numbers have been adjusted to budget.
Age is age nearest birthday.

Enlisted Active Duty Personnel by Years of Service and Age for FY2001 Valuation

Years Of Active Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	299	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	22,450	295	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	47,095	21,805	193	4	0	0	0	0	0	0	0	0	0	0	0	0
20	32,712	43,875	18,451	84	1	0	0	0	0	0	0	0	0	0	0	0
21	19,441	29,845	38,430	15,065	54	1	0	0	0	0	0	0	0	0	0	0
22	12,657	17,520	26,276	31,808	8,507	31	3	0	0	0	0	0	0	0	0	0
23	8,269	11,021	14,783	22,160	18,169	5,875	14	1	0	0	0	0	0	0	0	0
24	5,975	7,543	9,416	12,991	14,603	13,308	4,251	8	0	0	0	0	0	0	0	0
25	4,303	5,278	6,513	8,279	9,202	11,344	9,644	3,475	8	2	0	0	0	0	0	0
26	2,979	3,681	4,472	5,734	6,270	7,173	8,276	8,835	3,230	13	2	0	0	0	0	0
27	2,142	2,625	3,273	3,983	4,459	5,030	5,647	7,579	7,798	3,037	6	0	0	0	0	0
28	1,692	1,838	2,243	2,855	3,202	3,554	3,688	4,866	7,251	7,227	2,501	11	0	0	0	0
29	1,281	1,376	1,699	1,983	2,493	2,659	2,786	3,324	4,813	6,589	5,998	2,889	14	1	0	0
30	990	1,143	1,331	1,513	1,872	2,063	2,177	2,454	3,314	4,571	5,506	6,930	3,140	16	4	0
31	851	923	1,016	1,263	1,406	1,671	1,664	1,954	2,370	3,263	3,860	5,732	7,129	2,890	16	0
32	657	655	701	833	1,107	1,131	1,108	1,397	1,666	2,201	2,487	3,438	5,694	6,183	3,182	20
33	508	463	562	609	773	852	756	945	1,250	1,735	1,781	2,302	3,427	4,994	6,528	3,441
34	405	422	411	458	598	622	621	701	863	1,161	1,380	1,647	2,317	3,063	5,591	7,300
35	379	381	340	360	438	489	501	531	665	826	1,040	1,315	1,670	2,330	3,762	6,199
36	163	344	364	352	366	375	384	400	544	602	817	1,017	1,427	1,683	2,833	4,307
37	105	123	292	297	297	340	318	357	416	509	633	800	1,180	1,433	2,159	3,098
38	90	71	125	275	246	265	235	255	340	409	519	545	793	1,241	1,686	2,327
39	64	58	63	98	256	180	180	203	251	294	363	464	584	875	1,320	1,837
40	47	46	35	59	102	191	151	163	199	208	266	304	450	620	1,059	1,334
41	39	40	43	47	39	85	141	151	182	163	212	262	329	440	683	994
42	34	44	26	28	37	36	74	125	136	140	183	190	214	310	494	723
43	20	33	22	39	32	27	23	59	113	120	123	171	189	232	363	493
44	21	17	20	18	16	25	22	18	42	86	115	127	150	192	254	357
45	8	24	18	10	14	15	13	26	28	38	105	90	121	126	205	251
46	10	12	8	12	20	17	22	27	28	25	43	77	108	116	152	236
47	1	9	6	12	8	12	15	18	29	22	27	47	79	114	153	180
48	1	7	5	2	3	9	1	15	16	15	23	21	57	75	94	142
49	6	6	2	7	7	4	3	7	7	11	15	30	25	49	93	128
50	3	5	5	5	3	5	5	2	9	7	11	14	37	24	62	116
51	2	1	5	5	5	2	5	3	5	8	14	21	22	36	34	64
52	5	3	6	1	6	7	2	5	3	8	10	16	21	32	34	42
53	1	4	1	1	2	2	1	7	6	4	3	14	18	17	44	29
54	4	1	4	2	2	6	2	3	1	7	12	7	13	21	27	42
55	1	0	2	4	2	2	3	3	2	2	2	13	13	17	22	34
56	0	1	1	0	0	2	1	1	2	1	1	3	4	11	25	19
57	1	0	0	1	0	0	1	1	3	2	4	3	4	4	8	19
58	0	1	0	1	0	0	0	2	1	2	3	2	2	3	4	14
59	0	0	0	0	0	0	0	1	2	2	0	2	1	6	4	16
60+	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2
Total	165,711	151,541	131,163	111,258	74,617	57,412	42,738	37,922	35,593	33,310	28,065	28,504	29,237	27,156	30,896	33,764

Notes: Numbers have been adjusted to budget.
Age is age nearest birthday.

Enlisted Active Duty Personnel by Years of Service and Age for FY2001 Valuation

Years Of Active Service

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+	Total
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22,745
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69,097
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95,123
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102,836
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96,802
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80,292
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68,095
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58,048
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50,665
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45,579
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40,928
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37,905
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37,024
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36,008
32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32,461
33	20	5	0	0	0	0	0	0	0	0	0	0	0	0	0	30,951
34	3,318	16	1	0	0	0	0	0	0	0	0	0	0	0	0	30,895
35	7,481	3,286	18	0	0	0	0	0	0	0	0	0	0	0	0	32,011
36	6,466	7,787	2,924	37	3	0	0	0	0	0	0	0	0	0	0	33,195
37	4,603	7,180	7,229	3,774	42	1	0	0	0	0	0	0	0	0	0	35,186
38	3,208	4,666	6,621	7,671	2,819	41	0	0	0	0	0	0	0	0	0	34,448
39	2,353	3,250	4,418	6,428	4,623	1,755	37	0	0	0	0	0	0	0	0	29,956
40	1,651	2,459	3,204	4,184	3,527	2,825	1,355	25	0	0	0	0	0	0	0	24,464
41	1,323	1,799	2,389	2,924	2,200	2,013	1,980	1,016	18	0	0	0	0	0	0	19,512
42	1,056	1,258	1,824	2,147	1,360	1,223	1,269	1,591	658	9	1	0	0	0	0	15,190
43	656	922	1,242	1,512	1,027	880	807	1,010	1,012	436	8	0	0	0	0	11,571
44	519	676	981	1,168	699	621	547	593	667	718	241	20	0	0	0	8,930
45	351	486	693	917	551	435	347	412	389	465	347	201	11	0	0	6,697
46	294	387	508	602	335	317	280	290	281	308	266	278	170	5	0	5,234
47	208	239	345	428	236	179	194	212	172	198	170	229	255	115	2	3,914
48	163	219	269	316	184	147	134	153	98	127	113	108	177	170	18	2,882
49	158	177	221	212	114	112	97	79	79	89	104	84	116	194	24	2,268
50	146	140	194	166	87	79	59	73	52	63	69	61	65	101	27	1,695
51	103	135	167	136	78	51	39	39	35	41	47	49	55	42	9	1,258
52	53	118	126	115	74	36	27	37	26	24	36	24	30	38	11	976
53	47	73	113	78	68	53	28	17	16	19	8	14	20	25	15	748
54	52	56	80	93	60	22	24	20	12	13	6	9	9	13	7	635
55	58	42	66	54	51	33	17	8	6	7	2	3	8	6	0	489
56	31	32	34	36	19	19	11	3	1	3	3	2	4	2	1	273
57	14	31	25	26	11	5	6	8	1	1	1	1	0	1	1	183
58	17	14	23	26	10	3	7	1	2	1	1	0	1	0	0	141
59	13	14	19	13	13	3	5	3	6	0	0	0	0	1	0	124
60+	8	3	11	15	7	1	1	0	1	2	1	0	0	1	1	57
Total	34,371	35,470	33,745	33,078	18,198	10,854	7,271	5,598	3,532	2,524	1,424	1,083	921	714	122	1,207,792
Average YAS															6.80	
Average Age															27.91	

Notes: Numbers have been adjusted to budget.
Age is age nearest birthday.

All DOD Active Duty Personnel by Years of Service and Age for FY2001 Valuation

Years Of Active Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	299	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	22,450	295	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	47,099	21,806	193	4	0	0	0	0	0	0	0	0	0	0	0	0
20	32,716	43,881	18,452	84	1	0	0	0	0	0	0	0	0	0	0	0
21	20,227	29,860	38,457	15,073	58	1	0	0	0	0	0	0	0	0	0	0
22	13,982	17,624	26,315	31,814	8,519	32	3	0	0	0	0	0	0	0	0	0
23	10,600	13,510	14,889	22,191	18,195	5,892	14	2	0	0	0	0	0	0	0	0
24	7,395	11,542	11,941	13,072	14,642	13,350	4,267	10	0	0	0	0	0	0	0	0
25	4,971	7,241	10,179	10,744	9,281	11,400	9,692	3,503	8	2	0	0	0	0	0	0
26	3,570	4,484	6,212	9,367	8,409	7,299	8,336	8,913	3,273	14	2	0	0	0	0	0
27	2,695	3,301	4,155	5,830	7,592	6,921	5,834	7,682	7,921	3,108	6	3	0	0	0	0
28	2,025	2,453	2,934	3,698	4,819	6,261	5,441	5,065	7,411	7,409	2,595	12	0	0	0	0
29	1,581	1,863	2,313	2,742	3,399	4,125	5,315	4,929	5,085	6,819	3,091	15	0	0	0	0
30	1,227	1,533	1,767	2,155	2,642	3,001	3,717	4,905	4,810	4,899	5,812	7,317	3,415	20	4	0
31	1,030	1,234	1,412	1,707	2,104	2,460	2,614	3,518	4,776	4,860	4,226	6,075	7,640	3,211	20	1
32	807	888	1,029	1,158	1,478	1,752	1,861	2,274	3,175	4,491	3,838	3,768	6,110	6,705	3,517	27
33	650	664	783	876	1,020	1,179	1,310	1,547	2,018	3,133	3,627	3,600	3,753	5,455	7,126	3,778
34	498	598	585	657	795	852	941	1,152	1,410	1,864	2,710	3,444	3,646	3,431	6,067	7,925
35	475	493	463	541	596	653	708	844	1,126	1,434	1,752	2,514	3,796	3,634	4,162	6,685
36	226	491	470	467	517	508	584	594	830	1,079	1,359	1,690	2,936	3,666	4,091	4,708
37	161	232	391	406	406	458	447	526	610	824	1,043	1,304	1,969	2,894	4,110	4,533
38	133	161	205	379	342	351	340	371	507	626	815	997	1,413	2,102	2,972	4,262
39	100	124	130	172	312	269	255	287	390	463	574	749	984	1,448	2,056	3,085
40	96	109	85	125	164	261	223	237	301	329	434	490	711	1,018	1,604	2,099
41	65	81	86	95	94	134	212	204	275	260	327	397	528	678	1,111	1,534
42	51	70	58	63	79	96	123	173	187	221	281	296	374	498	730	1,095
43	30	64	64	54	78	65	101	154	154	180	201	242	305	363	552	765
44	34	43	44	33	39	55	54	58	84	134	174	203	226	287	398	566
45	24	37	32	25	34	42	49	64	69	88	174	157	204	226	308	429
46	17	16	17	22	33	31	38	53	52	74	85	145	185	188	241	361
47	15	19	11	29	19	18	39	33	33	60	70	104	142	180	220	282
48	6	15	13	6	11	19	14	26	32	53	43	50	101	138	158	234
49	7	15	10	14	14	9	15	16	23	34	45	68	57	88	140	205
50	6	8	10	12	7	9	13	10	22	22	34	44	62	56	101	183
51	6	2	11	7	7	11	12	8	9	24	28	37	44	60	67	96
52	7	6	9	9	11	16	4	11	11	21	32	29	45	48	57	72
53	5	6	3	6	6	9	5	14	13	17	12	24	39	40	61	53
54	6	2	7	10	7	11	9	13	8	18	19	17	35	35	46	72
55	3	2	6	7	6	5	8	10	9	4	11	20	25	36	38	48
56	1	2	3	4	2	5	2	11	6	6	7	6	12	19	32	25
57	2	1	1	2	2	3	3	5	6	9	7	13	9	8	12	29
58	1	2	2	1	0	3	2	2	2	5	8	6	7	8	8	20
59	1	1	1	1	2	0	2	3	3	3	2	3	3	11	8	20
60+	0	0	1	2	2	0	3	3	3	3	6	10	13	16	14	14
Total	175,300	164,781	143,739	123,688	85,723	67,564	52,574	47,177	44,670	42,590	36,609	36,930	38,804	36,569	40,031	43,206

Notes: Numbers have been adjusted to budget.
Age is age nearest birthday.

All DOD Active Duty Personnel by Years of Service and Age for FY2001 Valuation

Age	Years Of Active Service															Total
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+	
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	23	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0
34	3,682	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0
35	8,130	3,633	22	0	0	0	0	0	0	0	0	0	0	0	0	0
36	7,015	8,515	3,259	44	3	0	0	0	0	0	0	0	0	0	0	0
37	4,979	7,762	7,932	4,090	54	1	0	0	0	0	0	0	0	0	0	0
38	4,701	5,123	7,192	8,246	3,138	45	0	0	0	0	0	0	0	0	0	0
39	4,226	4,789	4,859	6,860	5,052	1,992	44	0	0	0	0	0	0	0	0	0
40	2,827	4,388	4,690	4,578	3,873	3,148	1,574	31	0	0	0	0	0	0	0	0
41	2,015	2,982	4,144	4,415	2,473	2,277	2,295	1,229	26	0	0	0	0	0	0	0
42	1,594	1,902	2,981	3,904	2,455	1,409	1,472	1,888	818	14	1	0	0	0	0	0
43	1,045	1,432	1,857	2,526	2,295	1,819	974	1,195	1,273	568	14	0	0	0	0	0
44	792	1,054	1,503	1,769	1,410	1,606	1,485	756	843	900	353	24	1	0	0	0
45	539	738	1,058	1,405	970	977	1,229	1,132	529	600	520	293	15	0	0	0
46	438	579	767	969	656	646	741	1,027	897	439	372	396	230	10	0	0
47	357	371	545	676	497	413	460	606	869	773	265	345	375	177	3	0
48	257	333	412	532	363	358	365	365	499	729	589	199	262	261	47	0
49	256	282	356	366	252	240	267	254	248	382	560	496	188	291	92	0
50	214	227	314	276	172	180	175	178	179	228	290	417	362	157	121	0
51	149	200	247	230	152	124	112	125	129	148	154	248	333	300	153	0
52	102	192	205	183	114	89	77	90	83	86	129	122	207	278	225	0
53	80	112	177	151	112	96	69	61	63	83	71	82	113	148	278	0
54	80	96	118	149	105	57	56	57	48	50	44	67	82	67	262	0
55	88	73	95	89	88	67	48	31	39	28	29	38	54	65	236	0
56	44	45	47	66	42	42	31	21	15	22	24	20	23	29	113	0
57	19	42	43	48	24	19	18	20	18	13	12	15	6	11	83	0
58	26	24	38	41	19	15	15	11	11	10	8	9	8	8	46	0
59	26	26	29	23	22	7	12	12	13	8	5	4	5	4	39	0
60+	26	23	34	32	18	14	17	9	11	16	8	7	4	5	40	0
Total	43,731	44,970	42,925	41,668	24,359	15,641	11,536	9,098	6,611	5,097	3,448	2,782	2,268	1,811	1,738	1,437,638
Average YAS 7.47																
Average Age 29.09																

Notes: Numbers have been adjusted to budget.
Age is age nearest birthday.

All DOD Reserve Officer Personnel for FY2001 Valuation

Age	Completed Years Of Active Duty Service																					Total	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		21+
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
21	96	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
22	197	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	203
23	278	2	6	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290
24	367	16	12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	396
25	481	25	36	10	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	554
26	659	31	100	37	32	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	865
27	865	78	141	100	84	22	5	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1,299
28	1,072	108	122	128	133	71	25	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1,667
29	1,211	123	193	186	186	127	75	12	4	5	4	1	0	0	0	0	0	0	0	0	0	0	2,121
30	1,436	165	210	238	221	159	136	78	25	7	6	5	0	1	0	0	0	0	0	0	0	0	2,687
31	1,913	204	255	295	251	194	185	157	60	31	18	7	2	2	0	0	0	0	0	0	0	0	3,574
32	2,095	180	227	287	267	204	199	185	128	84	38	8	8	2	0	0	0	0	0	0	0	0	3,912
33	2,181	261	235	348	264	201	174	182	179	278	85	29	11	6	1	0	0	0	0	0	0	0	4,435
34	2,223	259	271	391	311	210	159	167	198	430	211	89	22	7	3	1	0	0	0	0	0	0	4,952
35	2,217	301	338	443	361	223	166	198	220	427	343	156	54	22	1	6	0	0	0	0	0	0	5,476
36	2,156	346	336	458	398	287	217	190	239	345	314	211	104	36	32	8	3	2	1	0	0	0	5,683
37	2,240	376	295	460	421	318	258	246	277	323	273	221	153	83	51	16	2	0	1	0	0	0	6,014
38	2,231	392	306	442	426	355	332	320	290	236	270	249	129	124	90	25	7	4	0	1	0	0	6,229
39	1,916	343	252	397	438	288	277	375	326	293	238	238	153	95	141	31	16	5	2	0	0	1	5,825
40	1,730	299	268	376	408	309	273	323	356	343	243	269	176	92	128	56	30	13	1	3	1	4	5,701
41	1,447	281	225	363	414	329	248	317	338	310	282	237	179	85	113	55	32	9	4	2	0	0	5,270
42	1,238	225	210	362	386	322	259	281	275	244	263	234	162	104	87	52	25	12	3	2	2	1	4,749
43	1,140	191	186	326	390	289	254	267	232	234	240	222	203	120	58	48	18	12	5	0	2	1	4,438
44	1,039	211	182	325	385	295	225	213	254	208	208	222	199	130	83	30	25	13	5	3	2	2	4,259
45	960	187	211	308	356	264	214	195	214	173	176	193	171	117	113	52	24	9	3	3	2	4	3,949
46	954	199	179	307	336	260	197	185	192	167	157	210	149	128	104	60	32	14	2	3	2	4	3,841
47	946	167	165	288	324	212	176	153	159	109	160	146	126	110	81	47	34	15	6	3	1	2	3,430
48	918	180	160	298	266	234	175	135	130	131	136	141	120	92	60	41	24	22	8	5	0	4	3,280
49	877	210	189	263	313	227	159	126	126	93	89	94	96	86	63	34	27	14	5	3	3	1	3,098
50	809	225	199	251	238	170	155	140	96	103	83	90	99	60	40	29	18	14	9	2	0	1	2,831
51	825	262	201	235	230	152	135	97	115	84	74	59	65	47	36	21	16	10	6	4	0	2	2,676
52	802	288	232	231	217	137	105	99	81	78	52	53	58	26	36	27	28	9	4	2	2	2	2,569
53	757	263	232	271	236	147	105	82	83	73	62	41	45	36	19	21	14	3	3	2	1	3	2,499
54	705	274	272	275	252	128	97	85	78	53	49	44	46	44	22	21	11	6	4	6	2	3	2,477
55	567	279	251	262	213	116	108	89	57	61	47	46	26	25	17	6	4	5	4	0	2	3	2,188
56	319	135	150	130	120	74	54	45	31	35	21	20	24	14	6	7	7	2	5	3	0	0	1,202
57	321	91	125	137	99	75	34	32	28	24	16	21	8	17	14	8	4	4	1	1	0	0	1,060
58	257	104	110	90	87	49	37	22	20	23	14	7	9	4	4	8	2	2	5	0	1	0	855
59	264	68	87	78	73	45	29	27	25	19	17	15	4	6	11	2	3	4	0	0	0	2	779
60+	290	82	108	76	44	37	27	21	24	7	9	8	7	7	2	3	2	3	0	0	0	0	757
Total	43,020	7,434	7,286	9,471	9,184	6,533	5,277	5,051	4,865	5,032	4,198	3,586	2,608	1,728	1,416	715	408	206	87	48	23	40	118,216

Data taken from the actuarial valuation file created by the DoD Office of the Actuary.

Average Age 40.86

Average Years of Active Service

3.81

All DOD Reserve Enlisted Personnel for FY2001 Valuation

Completed Years Of Active Duty Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+	Total
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1,780	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,780
18	18,169	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,172
19	30,952	55	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,013
20	31,710	158	58	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,937
21	29,725	326	432	223	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,725
22	27,700	404	1,308	995	268	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,625
23	24,913	469	1,873	1,975	938	55	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,236
24	21,182	531	2,098	2,711	1,632	301	72	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28,537
25	17,202	575	2,236	3,038	1,909	544	235	33	16	0	0	0	0	0	0	0	0	0	0	0	0	0	25,788
26	14,509	663	2,121	2,902	1,996	650	535	186	22	4	0	0	0	0	0	0	0	0	0	0	0	0	23,568
27	12,870	702	1,832	2,863	2,047	730	632	403	97	18	5	0	0	0	0	0	0	0	0	0	0	0	22,199
28	11,209	809	1,596	2,366	1,966	723	658	546	270	86	28	4	0	0	0	0	0	0	0	0	0	0	20,261
29	10,863	912	1,511	2,317	1,797	783	777	617	345	310	112	17	5	0	0	0	0	0	0	0	0	0	20,466
30	11,072	1,026	1,511	2,392	1,923	904	815	719	475	428	234	75	24	1	0	0	0	0	0	0	0	0	21,599
31	11,231	1,035	1,535	2,711	2,018	889	893	868	528	601	359	160	51	12	8	0	0	0	0	0	0	0	22,899
32	10,079	1,024	1,290	2,647	1,964	846	895	845	511	543	416	198	113	30	12	2	0	0	0	0	0	0	21,415
33	9,287	964	1,285	2,363	1,940	951	781	840	475	573	543	233	138	62	21	6	5	0	0	0	0	0	20,407
34	8,415	952	1,219	2,108	2,023	974	829	795	508	573	571	275	180	119	70	23	7	1	0	0	0	0	19,642
35	8,279	882	1,381	2,046	1,942	1,026	852	900	507	568	581	284	181	123	114	52	11	3	0	0	0	0	19,732
36	8,183	881	1,362	2,130	1,779	906	835	904	637	643	608	302	220	160	144	84	19	4	0	1	0	0	19,802
37	8,417	864	1,414	2,072	1,884	882	810	884	685	786	726	358	281	161	215	111	27	8	1	1	0	0	20,595
38	8,285	850	1,282	2,018	1,917	958	837	877	775	839	780	448	310	210	233	100	42	15	1	0	3	0	20,780
39	7,679	801	1,275	1,905	1,920	901	813	757	629	717	790	506	418	250	227	116	46	15	11	3	0	4	19,783
40	6,811	724	1,155	1,722	1,809	775	761	677	578	608	674	498	501	310	180	98	31	16	4	9	1	5	17,947
41	6,058	639	1,012	1,607	1,578	777	689	651	537	552	537	408	414	347	240	109	48	20	13	5	3	5	16,249
42	4,935	606	1,014	1,478	1,447	683	654	490	484	400	402	329	333	302	274	114	59	34	6	2	0	3	14,049
43	4,183	511	896	1,273	1,341	643	548	392	381	345	342	253	232	203	202	127	61	30	14	4	2	4	12,007
44	3,751	559	866	1,260	1,314	572	520	343	335	321	286	219	238	178	145	122	63	43	6	5	3	5	11,154
45	3,342	576	881	1,187	1,148	557	476	324	279	275	238	172	162	148	140	99	65	45	16	2	1	3	10,136
46	2,842	541	796	1,148	1,036	500	469	301	275	218	162	154	137	91	82	79	37	33	16	12	4	7	8,940
47	2,430	548	837	959	931	440	374	264	253	194	160	126	108	80	65	55	48	28	19	9	5	3	7,936
48	2,296	586	722	846	824	371	313	256	259	173	110	114	78	72	62	37	28	26	15	3	2	3	7,196
49	2,452	716	743	783	754	338	284	242	220	151	115	86	67	52	42	27	23	22	4	3	4	3	7,131
50	2,198	779	763	706	720	289	263	235	178	128	85	73	64	37	37	23	16	12	3	3	1	1	6,616
51	2,119	937	806	705	661	259	169	169	132	98	88	70	49	42	43	29	18	12	2	3	2	4	6,417
52	1,843	1,049	899	746	806	325	200	170	136	111	82	63	45	32	28	12	5	7	3	2	2	1	6,587
53	1,497	980	963	853	889	327	191	154	152	102	66	64	60	42	20	20	12	5	4	4	0	3	6,408
54	1,355	1,001	1,021	986	1,008	304	196	154	126	80	71	48	40	22	25	13	12	8	2	0	1	1	6,474
55	1,176	813	852	926	938	286	162	118	121	54	52	43	32	21	20	10	11	12	6	3	1	2	5,659
56	746	500	556	551	544	195	91	65	50	40	35	25	20	12	13	11	8	5	2	0	0	1	3,470
57	714	414	447	460	454	149	84	57	55	30	28	14	21	7	5	6	8	3	1	2	0	1	2,970
58	562	353	382	380	367	143	80	59	52	31	28	11	17	7	10	4	5	4	1	0	0	0	2,516
59	474	263	315	309	336	122	39	49	61	39	22	18	9	5	2	4	4	1	0	1	0	0	2,106
60+	276	154	185	169	149	66	31	13	30	13	10	8	4	5	3	2	4	0	3	0	0	1	1,126
Total	395,891	28,135	44,736	60,787	50,936	21,154	17,905	15,357	11,174	10,592	9,346	5,645	4,573	3,153	2,682	1,495	723	415	161	76	39	60	685,035

Data taken from the actuarial valuation file created by the DoD Office of the Actuary.

Average Age 32.16

Average Years of Active Service

1.96

All DOD Reserve Personnel for FY2001 Valuation

Completed Years Of Active Duty Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+	Total
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1,780	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,780
18	18,169	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,172
19	30,952	55	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,013
20	31,731	158	58	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,958
21	29,821	326	441	223	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,830
22	27,897	407	1,308	938	268	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,828
23	25,191	471	1,879	1,977	940	55	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,526
24	21,549	547	2,110	2,711	1,633	301	72	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28,933
25	17,683	600	2,272	3,048	1,910	544	235	34	16	0	0	0	0	0	0	0	0	0	0	0	0	0	26,342
26	15,168	694	2,221	2,939	2,028	653	538	166	22	4	0	0	0	0	0	0	0	0	0	0	0	0	24,433
27	13,735	780	1,973	2,963	2,131	752	637	404	100	18	5	0	0	0	0	0	0	0	0	0	0	0	23,498
28	12,281	917	1,718	2,494	2,099	794	683	551	272	87	28	4	0	0	0	0	0	0	0	0	0	0	21,928
29	12,174	1,035	1,704	2,497	1,983	910	852	629	349	315	116	18	5	0	0	0	0	0	0	0	0	0	22,587
30	12,508	1,191	1,721	2,630	2,144	1,063	951	797	500	435	240	80	24	2	0	0	0	0	0	0	0	0	24,286
31	13,144	1,239	1,790	3,006	2,269	1,083	1,078	1,025	588	632	377	167	53	14	8	0	0	0	0	0	0	0	26,473
32	12,174	1,204	1,517	2,934	2,231	1,050	1,094	1,030	639	627	454	206	121	32	12	2	0	0	0	0	0	0	25,327
33	11,468	1,225	1,520	2,711	2,204	1,152	955	1,022	791	628	262	149	68	22	6	5	0	0	0	0	0	0	24,842
34	10,638	1,211	1,490	2,499	2,334	1,184	988	962	706	1,003	782	364	202	126	73	24	7	1	0	0	0	0	24,594
35	10,496	1,183	1,719	2,489	2,303	1,249	1,018	1,088	727	995	924	440	235	145	115	58	11	3	0	0	0	0	25,208
36	10,339	1,227	1,698	2,588	2,177	1,193	1,052	1,094	876	988	922	513	324	196	176	92	22	6	1	1	0	0	25,485
37	10,657	1,240	1,708	2,532	2,305	1,200	1,068	1,130	962	1,109	989	579	434	244	266	127	29	8	9	1	0	0	26,609
38	10,516	1,242	1,586	2,460	2,343	1,313	1,169	1,197	1,065	1,075	1,050	697	439	334	323	125	49	19	1	1	3	0	27,009
39	9,595	1,144	1,527	2,302	2,358	1,189	1,090	1,132	955	1,010	1,028	744	571	345	368	147	62	20	13	3	0	5	25,608
40	8,541	1,023	1,423	2,098	2,217	1,084	1,034	1,000	934	951	917	767	677	402	308	154	61	29	5	12	2	9	23,648
41	7,505	920	1,237	1,970	1,992	1,106	937	968	875	862	819	645	593	432	353	164	80	29	17	7	3	5	21,519
42	6,173	831	1,224	1,840	1,833	1,005	913	771	759	644	665	563	495	406	361	166	84	46	9	4	2	4	18,798
43	5,323	702	1,082	1,598	1,731	932	802	659	613	579	582	464	456	333	260	175	79	42	19	4	4	5	16,445
44	4,790	770	1,048	1,585	1,699	867	745	556	589	529	494	441	437	308	228	152	88	56	11	8	5	7	15,413
45	4,302	763	1,092	1,495	1,504	821	690	519	493	448	414	365	333	265	253	151	89	54	18	5	3	7	14,085
46	3,796	740	975	1,455	1,372	760	666	486	467	385	319	364	286	219	186	139	69	47	18	15	6	11	12,781
47	3,376	715	1,002	1,247	1,255	652	550	417	412	303	320	272	234	190	146	102	82	43	25	12	6	5	11,366
48	3,214	766	882	1,144	1,090	605	488	391	389	304	246	255	198	164	122	78	52	48	23	8	2	7	10,476
49	3,329	926	932	1,046	1,067	565	443	368	346	244	204	180	163	138	105	61	50	36	9	6	7	4	10,229
50	3,007	1,004	962	957	958	459	418	375	274	231	168	163	163	97	77	52	34	26	12	5	3	2	9,447
51	2,944	1,199	1,007	940	891	411	304	266	247	182	162	129	114	89	79	50	34	22	8	7	2	6	9,093
52	2,645	1,337	1,131	977	1,023	462	305	269	217	189	134	116	103	58	64	39	33	16	7	4	4	3	9,136
53	2,254	1,243	1,195	1,124	1,125	474	296	236	235	175	128	105	105	78	39	41	26	8	7	6	1	6	8,907
54	2,060	1,275	1,293	1,261	1,260	432	293	239	204	133	92	86	66	47	34	23	14	6	6	3	4	4	8,951
55	1,743	1,092	1,103	1,188	1,151	402	270	207	178	115	99	89	58	46	37	16	15	17	10	3	3	5	7,847
56	1,065	635	706	681	664	269	145	110	81	75	56	45	44	26	19	18	15	7	7	3	0	1	4,672
57	1,035	505	572	597	553	224	118	99	83	54	35	29	24	14	12	7	12	7	2	3	0	1	4,030
58	839	457	492	470	454	192	117	81	72	54	42	18	26	11	14	12	7	6	6	0	1	0	3,371
59	738	331	402	387	409	167	97	76	86	58	39	33	13	11	13	6	7	8	1	0	1	2	2,885
60+	566	236	293	245	193	103	58	34	54	20	19	16	11	12	5	5	6	3	3	0	0	1	1,883
Total	438,911	35,569	52,022	70,258	60,120	27,687	23,182	20,408	16,039	15,624	13,544	9,231	7,181	4,881	4,098	2,210	1,131	621	248	124	62	100	803,251

Data taken from the actuarial valuation file created by the DoD Office of the Actuary.

Average Age 33.44

Average Years of Active Service

2.24

Retired Military Valuation Data as of End FY 2001

All Officers

Age	Strength				Average Annual Net Retired Pay				TERRA			
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non-Dis	TERRA Res Ret
16	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
17	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
18	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
19	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
20	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
21	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
22	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
23	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
24	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
25	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
26	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
27	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
28	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
29	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
30	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
31	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
32	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
33	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
34	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
35	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
36	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
37	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
38	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
39	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
40	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
41	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
42	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
43	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
44	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
45	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
46	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
47	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
48	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
49	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
50	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
51	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
52	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
53	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
54	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
55	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
56	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
57	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
58	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
59	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
60	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
61	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
62	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
63	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
64	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
65	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
66	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
67	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
68	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
69	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
70	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0

Retired Military Valuation Data as of End FY 2001

All Officers

Age	Strength				Average Annual Net Retired Pay				TERRA			
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERRA Non-Dis	TERRA Res Ret	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total
71	9,198	464	0	5,153	14,815	2	1	\$38,861	\$29,719	\$0	\$13,501	\$29,754
72	8,576	452	0	4,961	13,999	1	4	\$39,119	\$30,257	\$0	\$13,256	\$29,661
73	7,215	466	0	4,511	12,182	1	4	\$40,093	\$31,198	\$0	\$13,167	\$29,790
74	5,288	367	0	3,212	8,867	1	1	\$41,119	\$31,810	\$0	\$13,709	\$30,805
75	4,541	341	0	3,129	8,011	0	1	\$41,965	\$32,921	\$0	\$13,489	\$30,458
76	4,943	385	0	3,774	9,102	0	0	\$43,138	\$32,660	\$0	\$12,987	\$30,193
77	5,842	604	0	4,773	11,219	0	1	\$42,473	\$28,573	\$0	\$12,823	\$29,111
78	6,182	880	0	5,158	12,220	0	0	\$42,060	\$27,764	\$0	\$12,303	\$28,470
79	6,486	1,074	0	5,555	13,115	0	0	\$41,103	\$26,124	\$0	\$12,229	\$27,647
80	7,519	1,384	0	5,987	14,890	0	1	\$40,100	\$25,889	\$0	\$12,308	\$27,604
81	7,306	1,574	0	5,953	14,833	0	0	\$39,230	\$25,732	\$0	\$12,896	\$27,229
82	6,692	1,453	0	5,391	13,536	0	0	\$38,717	\$26,358	\$0	\$13,630	\$27,399
83	5,872	1,388	0	5,032	12,292	0	0	\$37,989	\$26,049	\$0	\$14,074	\$26,850
84	4,721	1,184	0	4,157	10,062	0	0	\$37,248	\$27,348	\$0	\$14,213	\$26,572
85	3,695	948	0	3,303	7,946	0	0	\$36,921	\$26,937	\$0	\$14,643	\$26,469
86	2,916	730	0	2,555	6,201	0	0	\$36,124	\$27,324	\$0	\$15,359	\$26,532
87	1,950	538	0	2,099	4,587	0	0	\$36,786	\$27,312	\$0	\$16,297	\$26,299
88	1,423	423	0	1,465	3,311	0	0	\$35,988	\$26,657	\$0	\$16,320	\$26,093
89	1,004	273	0	1,222	2,499	0	0	\$36,592	\$27,969	\$0	\$16,143	\$25,607
90	777	216	0	918	1,911	0	0	\$35,780	\$25,888	\$0	\$16,020	\$25,170
91	585	178	0	781	1,544	0	0	\$36,315	\$29,204	\$0	\$15,044	\$24,736
92	418	122	0	543	1,083	0	0	\$36,704	\$26,355	\$0	\$14,715	\$24,513
93	313	88	0	418	819	0	0	\$36,907	\$24,408	\$0	\$14,062	\$23,904
94	239	59	0	311	609	0	0	\$36,908	\$21,822	\$0	\$13,298	\$23,390
95	122	36	0	203	361	0	0	\$35,345	\$27,496	\$0	\$13,696	\$22,389
96	92	24	0	135	251	0	0	\$36,215	\$24,873	\$0	\$12,550	\$22,402
97	56	9	0	74	139	0	0	\$36,449	\$23,445	\$0	\$15,524	\$22,467
98	31	15	0	52	98	0	0	\$34,636	\$23,545	\$0	\$13,890	\$22,848
99	22	8	0	28	58	0	0	\$39,931	\$24,012	\$0	\$11,963	\$24,233
100	12	4	0	15	31	0	0	\$32,565	\$25,494	\$0	\$14,388	\$22,857
101	11	2	0	10	23	0	0	\$35,964	\$33,378	\$0	\$14,347	\$26,341
102	5	0	0	4	9	0	0	\$35,796	\$33,378	\$0	\$9,066	\$23,916
103	3	1	0	4	8	0	0	\$37,980	\$17,448	\$0	\$14,730	\$23,789
104	0	1	0	0	1	0	0	\$0	\$51,144	\$0	\$0	\$51,144
105	0	0	0	3	3	0	0	\$0	\$0	\$0	\$11,472	\$11,472
106	1	0	0	0	1	0	0	\$40,200	\$0	\$0	\$0	\$40,200
107	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
108	1	0	0	0	1	0	0	\$34,236	\$0	\$0	\$0	\$34,236
109	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
110	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0
Total	352,414	26,866	690	128,007	507,977	12,626	246	\$35,383	\$24,707	\$18,589	\$14,096	\$29,431
60+	204,415	19,825	5	128,007	352,252	75	246	\$38,056	\$27,264	\$32,078	\$14,096	\$28,742
62+	185,778	18,967	3	121,298	326,046	29	208	\$38,345	\$27,460	\$24,652	\$13,972	\$28,644
65+	157,986	17,887	0	107,540	283,413	20	91	\$38,816	\$27,549	\$0	\$13,771	\$28,602
												\$23,021
												\$11,076
												\$23,625
												\$10,986
												\$23,021
												\$10,274

Note: Age is retiree's current age nearest birthday at end of fiscal year.
60+ is total for ages 60 and over.
62+ is total for ages 62 and over.
65+ is total for ages 65 and over.
Includes only retirees receiving payment from DoD.
Temporary Early Retirement Act (TERA) retirees and payments are shown for informational purposes only.
TERA nondisabled and TERA Reserve Retired numbers and payments are included in appropriate categories.
Figures adjusted to DoD budget.

Retired Military Valuation Data as of End FY 2001

All Enlisted

Age	Strength				Average Annual Net Retired Pay				TERRA			
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non-Dis	TERRA Res Ret
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	1	0	0	\$6,456	0	\$6,456	0	0
19	0	0	15	0	15	0	0	\$5,774	0	\$5,774	0	0
20	0	0	71	0	72	0	\$9,996	\$5,401	0	\$5,464	0	0
21	0	2	126	0	128	0	\$2,010	\$5,653	0	\$5,596	0	0
22	0	9	208	0	217	0	\$2,257	\$5,423	0	\$5,292	0	0
23	0	34	265	0	299	0	\$2,612	\$5,286	0	\$4,982	0	0
24	0	37	303	0	340	0	\$3,042	\$4,950	0	\$4,742	0	0
25	0	57	300	0	357	0	\$3,095	\$5,155	0	\$4,826	0	0
26	0	78	271	0	349	0	\$2,836	\$5,218	0	\$4,686	0	0
27	0	125	274	0	399	0	\$2,868	\$5,621	0	\$4,759	0	0
28	0	168	252	0	420	0	\$2,978	\$5,655	0	\$4,584	0	0
29	0	218	259	0	477	0	\$2,759	\$5,742	0	\$4,379	0	0
30	0	281	235	0	516	0	\$3,035	\$5,834	0	\$4,310	0	0
31	0	381	240	0	621	0	\$3,100	\$6,444	0	\$4,392	0	0
32	0	381	189	0	570	0	\$3,194	\$7,099	0	\$4,489	0	0
33	1	415	183	0	600	1	\$3,071	\$6,644	0	\$4,166	\$6,204	0
34	8	435	165	0	608	7,758	\$3,339	\$7,402	0	\$4,500	\$7,758	0
35	20	533	170	0	723	\$5,928	\$3,499	\$7,660	0	\$4,545	\$7,928	0
36	133	638	187	0	958	7,379	\$3,626	\$7,438	0	\$4,891	\$7,379	0
37	393	713	143	0	1,249	\$8,039	\$3,713	\$7,503	0	\$5,508	\$7,695	0
38	2,105	830	140	0	3,075	\$11,395	\$4,038	\$8,044	0	\$9,257	\$8,191	0
39	7,553	926	149	0	8,628	\$12,434	\$4,402	\$8,557	0	\$11,505	\$8,701	0
40	14,025	1,068	139	0	15,232	\$12,545	\$4,639	\$8,349	0	\$11,952	\$8,959	0
41	19,582	1,190	91	0	20,863	\$12,684	\$4,852	\$9,348	0	\$12,223	\$9,303	0
42	23,049	1,209	101	0	24,359	\$12,901	\$4,927	\$9,625	0	\$12,491	\$9,618	0
43	25,562	1,243	95	0	26,900	\$13,149	\$5,231	\$9,649	0	\$12,771	\$10,148	0
44	27,230	1,408	80	0	28,718	\$13,423	\$5,625	\$9,180	0	\$13,029	\$10,446	0
45	27,998	1,472	47	0	29,517	\$13,736	\$6,206	\$10,019	0	\$13,355	\$10,568	0
46	28,513	1,598	60	0	30,171	\$13,992	\$6,294	\$11,128	0	\$13,579	\$10,461	0
47	29,500	1,739	46	0	31,285	\$14,241	\$6,555	\$10,886	0	\$13,809	\$10,487	0
48	29,613	1,776	33	0	31,422	\$14,548	\$6,956	\$12,011	0	\$14,116	\$10,364	0
49	30,139	1,915	29	0	32,083	\$14,853	\$7,238	\$12,041	0	\$14,396	\$10,137	0
50	28,225	1,869	28	0	30,122	\$15,111	\$7,323	\$11,899	0	\$14,625	\$10,252	0
51	27,538	2,075	21	0	29,634	\$15,476	\$7,343	\$13,142	0	\$14,905	\$10,512	0
52	28,518	2,298	18	0	30,834	\$15,830	\$7,355	\$12,359	0	\$15,197	\$10,478	0
53	29,231	2,584	16	0	31,831	\$16,186	\$7,376	\$16,199	0	\$15,470	\$10,698	0
54	29,819	2,727	17	0	32,563	\$16,499	\$7,303	\$16,270	0	\$15,729	\$10,650	0
55	29,969	2,466	14	0	32,449	\$16,756	\$7,672	\$13,141	0	\$16,064	\$10,974	0
56	21,178	1,721	7	0	22,906	\$16,798	\$8,207	\$20,798	0	\$16,154	\$11,120	0
57	22,298	1,579	4	0	23,881	\$16,839	\$8,745	\$12,090	0	\$16,303	\$10,888	0
58	24,555	1,499	4	0	26,058	\$16,764	\$9,137	\$15,303	0	\$16,325	\$11,174	0
59	27,018	1,472	4	0	28,494	\$16,683	\$9,609	\$16,317	0	\$16,318	\$11,638	0
60	25,487	1,263	7	3,378	30,135	\$16,580	\$9,596	\$12,660	7,308	\$15,247	\$11,834	\$4,646
61	25,147	1,180	1	7,800	34,128	\$16,478	\$10,453	\$17,244	\$7,245	\$14,159	\$13,597	\$5,099
62	25,419	1,014	1	7,967	34,401	\$16,341	\$10,516	\$3,648	\$7,049	\$14,017	\$11,006	\$4,340
63	27,012	1,068	0	8,111	36,191	\$16,455	\$10,570	\$0	\$6,899	\$14,139	\$13,771	\$4,482
64	29,452	1,063	0	8,190	38,705	\$16,585	\$10,841	\$0	\$6,813	\$14,359	\$11,512	\$3,949
65	29,585	1,019	0	7,858	38,462	\$16,751	\$11,051	\$0	\$6,937	\$14,595	\$13,032	\$4,037
66	29,651	983	0	7,686	38,320	\$16,773	\$10,970	\$0	\$6,967	\$14,657	\$13,278	\$4,561
67	28,455	1,092	0	6,919	36,466	\$16,757	\$10,776	\$0	\$7,147	\$14,754	\$0	\$4,528
68	26,666	1,170	0	5,848	33,684	\$16,911	\$11,000	\$0	\$7,407	\$15,055	\$10,764	\$4,474
69	26,740	1,334	0	5,870	33,944	\$16,950	\$10,923	\$0	\$7,296	\$15,044	\$0	\$4,212
70	26,309	1,535	0	6,000	33,844	\$16,991	\$10,768	\$0	\$7,158	\$14,966	\$0	\$5,536

Retired Military Valuation Data as of End FY 2001

All Enlisted

Age	Strength				Average Annual Net Retired Pay				TERRA		TERRA	TERRA	
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERRA Non-Dis	TERRA Res Ret	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non-Dis	Res Ret
71	28,123	1,714	0	5,828	35,665	\$16,783	\$11,088	\$0	\$0	\$7,134	\$14,932	\$0	\$3,696
72	26,113	1,651	0	4,863	32,627	\$16,671	\$11,302	\$0	\$0	\$7,267	\$14,998	\$0	\$0
73	21,397	1,408	0	4,010	26,815	\$16,531	\$11,315	\$0	\$0	\$7,207	\$14,863	\$0	\$0
74	17,735	1,118	0	3,030	21,883	\$16,304	\$12,074	\$0	\$0	\$7,466	\$14,864	\$0	\$4,548
75	13,762	852	0	2,730	17,344	\$15,679	\$12,687	\$0	\$0	\$7,381	\$14,415	\$0	\$0
76	12,199	749	0	2,501	15,449	\$15,679	\$12,883	\$0	\$0	\$7,476	\$14,216	\$11,904	\$0
77	11,656	715	0	2,531	14,902	\$15,648	\$13,390	\$0	\$0	\$7,445	\$14,146	\$0	\$0
78	10,371	615	0	2,170	13,156	\$15,559	\$13,606	\$0	\$0	\$7,389	\$14,120	\$0	\$0
79	9,158	548	0	2,036	11,742	\$15,449	\$14,741	\$0	\$0	\$7,462	\$14,031	\$0	\$0
80	8,618	504	0	1,947	11,069	\$15,400	\$15,193	\$0	\$0	\$7,411	\$13,985	\$0	\$0
81	7,161	467	0	1,618	9,246	\$15,502	\$15,360	\$0	\$0	\$7,657	\$14,122	\$0	\$0
82	6,511	400	0	1,362	8,273	\$15,403	\$16,655	\$0	\$0	\$7,986	\$14,242	\$0	\$0
83	4,874	350	0	1,113	6,337	\$15,122	\$16,019	\$0	\$0	\$8,098	\$13,938	\$0	\$0
84	3,670	247	0	890	4,807	\$15,152	\$17,049	\$0	\$0	\$7,986	\$13,923	\$0	\$0
85	2,628	171	0	570	3,369	\$15,101	\$16,340	\$0	\$0	\$8,058	\$13,972	\$0	\$0
86	1,913	131	0	500	2,544	\$14,765	\$15,224	\$0	\$0	\$8,193	\$13,497	\$0	\$0
87	1,422	95	0	368	1,885	\$14,862	\$14,760	\$0	\$0	\$8,596	\$13,634	\$0	\$0
88	982	73	0	265	1,320	\$14,066	\$13,805	\$0	\$0	\$8,857	\$13,005	\$0	\$0
89	616	44	0	185	845	\$14,269	\$14,000	\$0	\$0	\$8,269	\$12,942	\$0	\$0
90	439	24	0	122	585	\$13,764	\$13,908	\$0	\$0	\$8,256	\$12,621	\$0	\$0
91	295	24	0	82	401	\$13,118	\$14,939	\$0	\$0	\$7,236	\$12,024	\$0	\$0
92	227	15	0	77	319	\$13,528	\$12,136	\$0	\$0	\$7,562	\$12,023	\$0	\$0
93	170	8	0	49	227	\$13,106	\$17,865	\$0	\$0	\$6,599	\$11,869	\$0	\$0
94	112	10	0	27	149	\$13,183	\$11,752	\$0	\$0	\$6,496	\$11,875	\$0	\$0
95	63	1	0	23	87	\$13,382	\$15,000	\$0	\$0	\$5,908	\$11,424	\$0	\$0
96	53	4	0	6	63	\$12,453	\$12,129	\$0	\$0	\$4,832	\$11,706	\$0	\$0
97	31	3	0	6	40	\$12,451	\$13,956	\$0	\$0	\$6,712	\$11,703	\$0	\$0
98	17	2	0	3	22	\$13,730	\$11,370	\$0	\$0	\$6,732	\$12,561	\$0	\$0
99	17	1	0	3	21	\$13,586	\$5,184	\$0	\$0	\$6,976	\$12,242	\$0	\$0
100	6	1	0	2	9	\$12,532	\$14,088	\$0	\$0	\$7,458	\$11,577	\$0	\$0
101	3	2	0	1	6	\$12,980	\$8,556	\$0	\$0	\$9,564	\$10,936	\$0	\$0
102	6	0	0	2	8	\$12,028	\$0	\$0	\$0	\$2,598	\$9,671	\$0	\$0
103	3	0	0	1	4	\$13,084	\$0	\$0	\$0	\$5,952	\$11,301	\$0	\$0
104	1	1	0	0	2	\$18,192	\$4,416	\$0	\$0	\$0	\$11,304	\$0	\$0
105	1	0	0	0	1	\$13,488	\$0	\$0	\$0	\$0	\$13,488	\$0	\$0
106	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
107	1	1	0	0	2	\$19,296	\$3,204	\$0	\$0	\$0	\$11,250	\$0	\$0
108	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
109	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
110	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	1,024,050	65,841	5,009	114,548	1,209,448	\$15,672	\$8,497	\$6,888	\$7,207	\$14,443	\$9,967	\$4,420	\$4,420
60+	490,277	24,670	9	114,548	629,504	\$16,432	\$11,744	\$12,168	\$7,207	\$14,570	\$12,468	\$4,420	\$4,420
62+	439,643	22,227	1	103,370	565,241	\$16,421	\$11,934	\$3,648	\$7,201	\$14,558	\$12,429	\$4,318	\$4,318
65+	357,760	19,082	0	79,102	455,944	\$16,410	\$12,147	\$0	\$7,288	\$14,649	\$12,457	\$4,380	\$4,380

Note: Age is retiree's current age nearest birthday at end of fiscal year.
60+ is total for ages 60 and over.
62+ is total for ages 62 and over.
65+ is total for ages 65 and over.
Includes only retirees receiving payment from DoD.
Temporary Early Retirement Act (TERA) retirees and payments are shown for informational purposes only.
TERRA nondisabled and TERRA Reserve Retired numbers and payments are included in appropriate categories.
Figures adjusted to DoD budget.

Retired Military Valuation Data as of End FY 2001

All DOD

Age	Strength				Average Annual Net Retired Pay				TERRA			
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non-Dis	TERRA Res Ret
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	1	0	1	0	0	0	0	0	0	0
19	0	0	15	0	15	0	0	0	0	0	0	0
20	0	1	71	0	72	0	0	0	0	0	0	0
21	0	2	126	0	128	0	0	0	0	0	0	0
22	0	9	208	0	217	0	0	0	0	0	0	0
23	0	34	266	0	300	0	0	0	0	0	0	0
24	0	38	304	0	342	0	0	0	0	0	0	0
25	0	57	305	0	362	0	0	0	0	0	0	0
26	0	80	280	0	360	0	0	0	0	0	0	0
27	0	126	290	0	416	0	0	0	0	0	0	0
28	0	175	273	0	448	0	0	0	0	0	0	0
29	0	224	289	0	513	0	0	0	0	0	0	0
30	0	289	262	0	551	0	0	0	0	0	0	0
31	0	399	275	0	674	0	0	0	0	0	0	0
32	0	405	213	0	618	0	0	0	0	0	0	0
33	1	444	211	0	656	1	0	0	0	0	0	0
34	8	467	192	0	667	8	0	0	0	0	0	0
35	22	568	200	0	790	22	0	0	0	0	0	0
36	135	699	209	0	1,043	135	0	0	0	0	0	0
37	402	795	170	0	1,367	402	0	0	0	0	0	0
38	2,173	911	171	0	3,255	832	0	0	0	0	0	0
39	7,805	1,032	180	0	9,017	1,712	0	0	0	0	0	0
40	14,500	1,171	175	0	15,846	3,064	0	0	0	0	0	0
41	20,484	1,299	113	0	21,896	4,339	0	0	0	0	0	0
42	24,777	1,346	132	0	26,255	5,198	0	0	0	0	0	0
43	28,435	1,402	114	0	29,951	5,857	0	0	0	0	0	0
44	31,247	1,596	107	0	32,950	6,119	0	0	0	0	0	0
45	32,909	1,664	72	0	34,645	5,676	0	0	0	0	0	0
46	34,530	1,783	82	0	36,395	4,768	0	0	0	0	0	0
47	35,992	1,977	64	0	38,033	3,892	0	0	0	0	0	0
48	36,868	2,037	58	0	38,963	2,995	0	0	0	0	0	0
49	38,004	2,202	44	0	40,250	2,218	0	0	0	0	0	0
50	36,569	2,150	42	0	38,761	1,660	0	0	0	0	0	0
51	36,553	2,375	37	0	38,965	1,184	0	0	0	0	0	0
52	38,556	2,667	27	0	41,250	906	0	0	0	0	0	0
53	40,501	2,995	29	0	43,525	707	0	0	0	0	0	0
54	42,334	3,262	24	0	45,620	613	0	0	0	0	0	0
55	43,567	3,137	19	0	46,723	496	0	0	0	0	0	0
56	30,860	2,231	13	0	33,104	276	0	0	0	0	0	0
57	32,280	2,122	8	0	34,410	191	0	0	0	0	0	0
58	34,893	2,027	6	0	36,926	174	0	0	0	0	0	0
59	37,367	2,014	8	0	39,389	119	0	0	0	0	0	0
60	34,661	1,688	8	5,404	41,761	88	65	0	0	0	0	0
61	34,610	1,613	2	12,483	48,708	46	152	0	0	0	0	0
62	34,947	1,383	2	12,498	48,830	21	137	0	0	0	0	0
63	36,347	1,441	0	12,755	50,543	27	200	0	0	0	0	0
64	38,331	1,401	2	12,773	52,557	14	195	0	0	0	0	0
65	38,238	1,357	0	12,323	51,918	10	161	0	0	0	0	0
66	38,283	1,327	0	12,005	51,615	3	170	0	0	0	0	0
67	37,701	1,439	0	11,423	50,563	4	106	0	0	0	0	0
68	35,672	1,507	0	10,064	47,243	3	88	0	0	0	0	0
69	36,072	1,714	0	10,274	48,060	2	26	0	0	0	0	0
70	35,369	1,985	0	10,743	48,097	1	10	0	0	0	0	0

Retired Military Valuation Data as of End FY 2001

All DOD

Age	Strength				TERRA				Average Annual Net Retired Pay				TERRA	
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non Disabled	TERRA Res Ret	TERRA Non-Dis	TERRA Res Ret
71	37,321	2,178	0	10,981	50,480	22,224	15,057	\$0	\$10,122	\$19,282	\$23,280	\$11,286	\$23,280	\$11,286
72	34,689	2,113	0	9,824	46,626	22,221	15,446	\$0	\$10,291	\$19,400	\$17,748	\$8,838	\$17,748	\$8,838
73	28,612	1,864	0	8,521	38,997	22,473	16,179	\$0	\$10,362	\$19,526	\$26,880	\$13,833	\$26,880	\$13,833
74	23,023	1,485	0	6,242	30,750	22,004	16,951	\$0	\$10,679	\$19,461	\$19,584	\$9,438	\$19,584	\$9,438
75	18,303	1,193	0	5,859	25,355	22,380	18,471	\$0	\$10,643	\$19,484	\$0	\$18,852	\$0	\$18,852
76	17,142	1,134	0	6,275	24,551	23,597	19,597	\$0	\$10,790	\$20,139	\$11,904	\$0	\$11,904	\$0
77	17,498	1,319	0	7,304	26,121	24,604	24,343	\$0	\$10,960	\$20,574	\$0	\$10,176	\$0	\$10,176
78	16,553	1,495	0	7,328	25,376	25,456	21,940	\$0	\$10,847	\$21,030	\$0	\$0	\$0	\$0
79	15,644	1,622	0	7,591	24,857	26,085	22,278	\$0	\$10,951	\$21,215	\$0	\$0	\$0	\$0
80	16,137	1,888	0	7,934	25,959	26,909	23,033	\$0	\$11,106	\$21,797	\$0	\$7,872	\$0	\$7,872
81	14,467	2,041	0	7,571	24,079	27,485	23,358	\$0	\$11,776	\$22,196	\$0	\$0	\$0	\$0
82	13,203	1,853	0	6,753	21,809	27,219	24,264	\$0	\$12,491	\$22,408	\$0	\$0	\$0	\$0
83	10,746	1,738	0	6,145	18,629	27,617	24,029	\$0	\$12,991	\$22,458	\$0	\$0	\$0	\$0
84	8,391	1,431	0	5,047	14,869	27,591	25,570	\$0	\$13,115	\$22,483	\$0	\$0	\$0	\$0
85	6,323	1,119	0	3,873	11,315	27,852	25,318	\$0	\$13,674	\$22,748	\$0	\$0	\$0	\$0
86	4,829	861	0	3,055	8,745	27,663	25,483	\$0	\$14,186	\$22,740	\$0	\$0	\$0	\$0
87	3,372	633	0	2,467	6,472	27,541	25,428	\$0	\$15,148	\$22,610	\$0	\$0	\$0	\$0
88	2,405	496	0	1,730	4,631	27,036	24,765	\$0	\$15,177	\$22,362	\$0	\$0	\$0	\$0
89	1,620	317	0	1,407	3,344	28,104	25,886	\$0	\$15,108	\$22,407	\$0	\$0	\$0	\$0
90	1,216	240	0	1,040	2,496	27,832	24,690	\$0	\$15,110	\$22,229	\$0	\$0	\$0	\$0
91	880	202	0	863	1,945	28,539	27,509	\$0	\$14,302	\$22,115	\$0	\$0	\$0	\$0
92	645	137	0	620	1,402	28,548	24,798	\$0	\$13,827	\$21,871	\$0	\$0	\$0	\$0
93	483	96	0	467	1,046	28,530	23,863	\$0	\$13,279	\$21,292	\$0	\$0	\$0	\$0
94	351	69	0	338	758	29,337	20,363	\$0	\$12,755	\$21,126	\$0	\$0	\$0	\$0
95	185	37	0	226	448	27,866	27,158	\$0	\$12,903	\$20,259	\$0	\$0	\$0	\$0
96	145	28	0	141	314	27,529	23,052	\$0	\$12,222	\$20,256	\$0	\$0	\$0	\$0
97	87	12	0	80	179	27,898	21,073	\$0	\$14,864	\$21,615	\$0	\$0	\$0	\$0
98	48	17	0	55	120	27,232	27,407	\$0	\$13,499	\$20,962	\$0	\$0	\$0	\$0
99	39	9	0	31	79	28,447	21,920	\$0	\$11,480	\$21,046	\$0	\$0	\$0	\$0
100	18	5	0	17	40	25,887	23,213	\$0	\$13,573	\$20,319	\$0	\$0	\$0	\$0
101	14	4	0	11	29	31,039	20,967	\$0	\$13,912	\$23,153	\$0	\$0	\$0	\$0
102	11	0	0	6	17	22,832	\$0	\$0	\$6,910	\$17,212	\$0	\$0	\$0	\$0
103	6	1	0	5	12	25,532	\$17,448	\$0	\$12,974	\$19,626	\$0	\$0	\$0	\$0
104	1	2	0	0	3	18,192	\$27,780	\$0	\$0	\$24,584	\$0	\$0	\$0	\$0
105	1	0	0	3	4	13,488	\$0	\$0	\$11,472	\$11,976	\$0	\$0	\$0	\$0
106	1	0	0	0	1	40,200	\$0	\$0	\$0	\$40,200	\$0	\$0	\$0	\$0
107	1	1	0	0	2	19,296	\$3,204	\$0	\$0	\$11,250	\$0	\$0	\$0	\$0
108	1	0	0	0	1	34,236	\$0	\$0	\$0	\$34,236	\$0	\$0	\$0	\$0
109	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
110	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	1,376,464	92,707	5,699	242,555	1,717,425	53,762	1,345	\$8,305	\$10,843	\$18,876	\$12,569	\$5,638	\$12,569	\$5,638
60+	694,692	44,495	14	242,555	981,756	225	1,345	\$19,279	\$10,843	\$19,854	\$16,187	\$5,638	\$16,187	\$5,638
62+	625,421	41,194	4	224,668	891,287	91	1,128	\$19,401	\$10,856	\$19,711	\$16,095	\$5,548	\$16,095	\$5,548
65+	515,746	36,969	0	186,642	739,357	29	576	\$0	\$11,023	\$19,998	\$19,742	\$5,311	\$19,742	\$5,311

Note: Age is retiree's current age nearest birthday at end of fiscal year.
60+ is total for ages 60 and over.
62+ is total for ages 62 and over.
65+ is total for ages 65 and over.
Includes only retirees receiving payment from DoD.
Temporary Early Retirement Act (TERA) retirees and payments are shown for informational purposes only.
TERRA nondisabled and TERRA Reserve Retired numbers and payments are included in appropriate categories.
Figures adjusted to DoD budget.

APPENDIX D

ECONOMIC ASSUMPTIONS

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Economic Assumptions	D-2

ECONOMIC ASSUMPTIONS

In August, 1999, the DoD Retirement Board of Actuaries adopted the following economic assumptions for use in the valuation as of September 30, 2001: the rate of inflation (CPI) is assumed to be 3.0 percent per year; the investment return is 6.25 percent per year; and the basic pay scale increases are 3.5 percent per year. As background for determining the economic assumptions, the Board receives a number of presentations by economists and actuaries and is provided with extensive historical data on inflation, interest rates, and wage growth.

Inflation

The CPI-W, one of the consumer price indexes published by the Bureau of Labor Statistics, was emphasized as an inflation measure since it is used in calculating military retired pay cost-of-living increases. Table D-1 shows the average annual CPI-W changes over various periods of time since 1930. Different periods experienced different rates of change. The average annual CPI change during successive 30-year periods since World War II has risen from 3.79 percent for the period ending in 1975 to 5.30 percent for the period ending in 1995. This reflects the high inflation during the 1970s.

The DoD assumption for CPI is consistent with what is used in other parts of the government. The Civil Service Retirement System assumes a 3.75 percent CPI increase in its Congressional reports. The Trustees of the Social Security Administration in their 2001 Annual Report made projections under three alternative sets of assumptions. Their intermediate assumption for CPI was 3.3 percent. The Board has noted that the effect of the CPI on long-range cost projections is relatively minor in a system where retirement benefits are fully indexed and expressed as a percentage of payroll.

Interest Rate

For the interest assumption, the Board focuses on real interest rates. To simplify discussion, the real interest rate is defined as the difference between the nominal interest rate and the CPI. Other things being equal, a lower element of risk in an investment will give a lower real interest rate. Because the military retirement system must be invested in obligations of the U.S. Government, a highly secure investment, the real interest rates are expected to be relatively low.

The Board analyzes past real interest rates that would have been earned by the types of public debt securities in which the military retirement level is invested.¹ The Board members

¹ Data through 2001 are given in Table D-2.

recognize the importance of selecting a real interest rate that would prevail on the average over a long period of time and that would not unduly weight recent experience or expected results during the near-term future. Particular emphasis is given to the rates since 1950. After analyzing past trends of government trust fund earnings, 3.25 percent was adopted as the rate of real interest. Since 3.0 percent had been adopted as the inflation rate, the nominal rate of interest is 6.25 percent.

It is relevant to note the real interest rates being assumed by the other two major public benefit systems. The Trustees of the Social Security Administration used an ultimate real interest rate intermediate assumption of 3.0 percent in its 2001 report. The Board of Actuaries of the Civil Service Retirement System used a 3.0 percent real interest rate assumption in its 2001 valuation.

Wage Growth

For the salary increase assumption, recent historical data is used as well as forecasts for the population at large. The Career Compensation Act of 1949 revamped the military compensation structure to provide an equitable pay and allowance system. Associated with this change was a large basic pay increase designed to establish rough comparability with the private sector. Additionally, the Army and Air Force Vitalization and Retirement Equalization Act of 1948 established for the first time a uniform voluntary retirement system authority among all branches of Service. The reserve retirement program was also established at this time. These two Acts provided the start of the modern-day compensation structure designed to attract and retain the number of Service members needed. In the analysis of basic pay scale increases, the Board looked at all data from this point forward.

Table D-3 displays real military basic pay increases over various periods of time during the post-World War II era. From the early 1950s to the early 1970s, the average annual real military pay increase was approximately 1.8 percent. From the early 1950s to the present, the increase has averaged approximately 1.0 percent a year. Since the Vietnam War, annual real pay increases have averaged only 0.6 percent. (There was negative real pay growth in the late 1970s and late 1980s.)

In making its recommendation for the real rate of the annual basic pay scale increase, the Board assumed that future general pay increases in the military would not deviate much from pay increases in the private sector. In this light, the Board adopted a real basic pay growth assumption of 0.5 percent, leading to a nominal growth of 3.5 percent. The Board of Actuaries of the Civil Service Retirement System assumed 0.5 percent real wage growth for its 2001 valuation. The Social Security Trustees' 2001 report had an intermediate ultimate assumption for real wage growth of 1.0 percent.

TABLE D-1

CONSUMER PRICE INDEX (CPI-W) INCREASES

	From December 31 of: 1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	1996	1997	1998	1999	2000
To December 31 of:																			
1935	-3.04																		
1940	-1.34	0.38																	
1945	0.81	2.79	5.25																
1950	2.22	4.03	5.91	6.57															
1955	2.06	3.37	4.39	3.96	1.43														
1960	2.07	3.12	3.82	3.35	1.77	2.12													
1965	1.96	2.82	3.32	2.84	1.63	1.73	1.33												
1970	2.28	3.07	3.52	3.18	2.35	2.65	2.92	4.54											
1975	2.79	3.54	4.00	3.79	3.24	3.70	4.23	5.71	6.90										
1980	3.41	4.16	4.64	4.55	4.22	4.79	5.46	6.88	8.07	9.24									
1985	3.52	4.20	4.63	4.55	4.27	4.75	5.28	6.29	6.89	6.88	4.57								
1990	3.56	4.18	4.57	4.49	4.24	4.64	5.07	5.83	6.16	5.92	4.29	4.02							
1995	3.49	4.05	4.40	4.31	4.06	4.40	4.73	5.30	5.46	5.10	3.75	3.35	2.68						
1996	3.49	4.04	4.38	4.29	4.05	4.37	4.69	5.24	5.37	5.01	3.72	3.34	2.78	3.29					
1997	3.46	4.00	4.32	4.24	3.99	4.30	4.60	5.12	5.23	4.85	3.59	3.19	2.60	2.40	1.51				
1998	3.43	3.96	4.28	4.18	3.94	4.24	4.52	5.01	5.09	4.70	3.48	3.06	2.47	2.11	1.53	1.55			
1999	3.42	3.94	4.25	4.16	3.92	4.20	4.47	4.94	5.01	4.62	3.44	3.04	2.50	2.27	1.94	2.15	2.76		
2000	3.42	3.93	4.24	4.14	3.90	4.18	4.44	4.90	4.96	4.57	3.44	3.06	2.59	2.50	2.30	2.56	3.08	3.40	
2001	3.39	3.89	4.19	4.09	3.85	4.12	4.37	4.79	4.84	4.44	3.33	2.95	2.47	2.29	2.09	2.24	2.47	2.33	1.28

All figures are average annual percentage increases.

Source of CPI-W indices: CPI DETAILED REPORT, a monthly publication of the Bureau of Labor Statistics.

TABLE D-2

COMPOSITE SERIES: AVERAGE OF TREASURY LONG TERM AND TREASURY 3-5 YEARS REMAINING
MATURITY FROM 1941 TO 1961 SPECIAL TREASURY CERTIFICATES (CSRS) FROM 1962 TO 1984,
AND MILITARY RETIREMENT SYSTEM TRUST FUND NEW INVESTMENTS BEGINNING WITH 1985

AVERAGE INTEREST RATES

	From December 31 of:	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	1996	1997	1998	1999	2000
	To December 31 of:																	
1935																		
1940																		
1945	1.79																	
1950	1.83		1.86															
1955	2.04		2.16	2.47														
1960	2.44		2.65	3.05	3.63													
1965	2.75		2.99	3.37	3.82	4.01												
1970	3.27		3.57	4.00	4.52	4.97	5.93											
1975	3.77		4.10	4.56	5.09	5.57	6.36	6.80										
1980	4.37		4.74	5.23	5.80	6.34	7.13	7.74	8.68									
1985	5.24		5.68	6.24	6.88	7.54	8.44	9.29	10.55	12.45								
1990	5.63		6.06	6.60	7.20	7.81	8.58	9.26	10.09	10.80	9.17							
1995	5.66		6.05	6.53	7.04	7.54	8.14	8.59	9.04	9.16	7.55	5.95						
1996	5.67		6.06	6.52	7.03	7.51	8.09	8.51	8.92	8.99	7.45	6.04	6.47					
1997	5.68		6.06	6.52	7.01	7.48	8.03	8.42	8.79	8.83	7.35	6.07	6.37	6.28				
1998	5.66		6.03	6.48	6.95	7.40	7.92	8.28	8.60	8.58	7.13	5.87	5.74	5.38	4.49			
1999	5.66		6.03	6.46	6.93	7.36	7.86	8.19	8.48	8.43	7.03	5.86	5.76	5.52	5.14	5.80		
2000	5.67		6.03	6.46	6.91	7.33	7.81	8.12	8.39	8.32	6.97	5.89	5.83	5.68	5.48	5.97	6.15	
2001	5.63		5.98	6.39	6.83	7.22	7.68	7.96	8.18	8.07	6.73	5.64	5.38	5.17	4.89	5.03	4.65	3.17

All figures are average annual percentages.

Source: Office of the Actuary, Office of Personnel Management; Office of the Actuary, Department of Defense

TABLE D-3

AVERAGE REAL MILITARY PERSONNEL BASIC PAY INCREASES

	1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	1996	1997	1998	1999	2000
From December 31 of:																			
1930																			
To December 31 of:																			
1935	N/A																		
1940	N/A	N/A																	
1945	N/A	N/A	N/A																
1950	N/A	N/A	N/A	N/A															
1955	N/A	N/A	N/A	-2.21	1.28														
1960	N/A	N/A	N/A	-0.48	0.39	-0.50													
1965	N/A	N/A	N/A	-0.49	1.52	1.64	3.84												
1970	N/A	N/A	N/A	0.58	1.79	1.96	3.21	2.58											
1975	N/A	N/A	N/A	0.97	2.03	2.22	3.14	2.80	3.02										
1980	N/A	N/A	N/A	1.31	2.03	1.31	1.76	1.08	0.34	-2.26									
1985	N/A	N/A	N/A	0.79	1.30	1.28	1.64	1.10	0.61	-0.57	1.16								
1990	N/A	N/A	N/A	0.84	1.28	1.01	1.26	0.75	0.30	-0.59	0.26	-0.64							
1995	N/A	N/A	N/A	0.67	1.04	0.92	1.13	0.68	0.31	-0.36	0.28	-0.16	0.33						
1996	N/A	N/A	N/A	0.64	0.96	0.89	1.09	0.65	0.28	-0.36	0.25	-0.17	0.23	-0.28	1.27				
1997	N/A	N/A	N/A	0.62	0.93	0.90	1.09	0.67	0.32	-0.28	0.31	-0.05	0.37	0.49	1.65	2.02			
1998	N/A	N/A	N/A	0.63	0.94	0.93	1.12	0.71	0.38	-0.18	0.40	0.11	0.58	1.00	1.76	2.00	1.99		
1999	N/A	N/A	N/A	0.66	0.96	0.95	1.14	0.75	0.44	-0.09	0.48	0.24	0.73	1.25	1.39	1.43	1.14	0.29	
2000	N/A	N/A	N/A	0.68	0.98	0.94	1.12	0.73	0.43	-0.08	0.47	0.25	0.69	1.05	1.77	1.89	1.85	1.78	
2001	N/A	N/A	N/A	0.68	0.97	0.99	1.17	0.80	0.52	0.05	0.61	0.43	0.92	1.42					3.28

All figures are average annual percentage increases.

Source: House Armed Services Committee publication, Title 37,
United States Code (Pay and Allowances of the Uniformed Services.)

APPENDIX E

NORMAL COST WEIGHTING FACTORS

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Normal Cost Weighting Factors	E-2

NORMAL COST WEIGHTING FACTORS

There are three different retirement benefit formulas that apply to three populations within the military retirement system. (See Appendix A for a discussion of FINAL PAY, HI-3, and REDUX formulas.) A single normal cost percentage (NCP) for the entire population is obtained by weighting the NCP for each retirement group by its expected percentage of payroll in the relevant year.

In order to continue to budget for NCPs well in advance of the valuation date, the DoD Retirement Board of Actuaries decided to create a set of projected weighting factors. The relative stability of past experience indicates that this method gives reasonably accurate results.

Since the composite NCP developed at year-end is implemented each month during the next fiscal year, the weighting factors reflect mid-year experience. For example, when determining the percentage of the payroll during year t allocated to people who entered in year $t-1$ or later, we interpolated between 6 percent and 14 percent to obtain 10 percent at mid-year. These mid-year interpolated percentages of payroll are shown in Table 5 of the main text.

Current rates were created using 1987 through 1991 data. Table E-1 displays the active duty basic payroll percentage distribution by completed years of service at the end of each of these fiscal years, as well as average distributions for the two periods, 1982-1987 and 1987-1991.

TABLE E-1

ACTIVE DUTY BASIC PAYROLL PERCENTAGE DISTRIBUTION
BY COMPLETED YEARS OF SERVICE

Completed Years of Service	Percentage of Payroll on:					Average Percent	Average Percent
	9/30/87	9/30/88	9/30/89	9/30/90	9/30/91	1982-1987	1987-1991
0	7%	7%	7%	6%	5%	8%	6%
1 or less	15	15	14	13	11	17	14
2 or less	24	23	22	21	19	25	22
3 or less	32	31	30	28	27	33	29
4 or less	37	36	35	34	32	39	35
5 or less	43	42	41	39	37	44	40
6 or less	47	46	45	44	42	49	45
7 or less	52	51	50	48	47	53	50
8 or less	56	55	54	53	51	57	54
9 or less	60	59	58	57	55	61	58
10 or less	64	63	62	60	59	64	62
11 or less	67	66	66	64	63	67	65
12 or less	70	70	69	68	66	72	69
13 or less	73	73	72	72	70	73	72
14 or less	76	76	75	75	74	76	75
15 or less	79	79	78	78	77	79	78
16 or less	82	82	82	81	81	82	81
17 or less	85	85	85	84	84	85	85
18 or less	88	88	88	88	87	88	88
19 or less	91	91	91	91	90	91	91
20 or less	93	93	93	93	93	93	93
21 or less	94	94	94	94	94	94	94
22 or less	96	96	96	96	95	95	96
23 or less	96	96	97	97	97	96	97
24 or less	97	97	97	98	98	97	97
25 or less	98	98	98	98	98	98	98
26 or less	99	99	99	99	99	99	99
27 or less	99	99	99	99	99	99	99
28 or less	99	99	99	99	99	99	99
29 or less	100	100	100	100	100	100	100
TOTAL FORCE	100	100	100	100	100	100	100

APPENDIX F

VALUATION PROGRAM PARAMETERS DESCRIPTION

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VALUATION PROGRAM PARAMETERS

GORGO is the computer program used to compute the aggregate entry-age-normal cost percentage and the unfunded liability. In addition to being affected by the external rates, GORGO has a number of internal parameters which affect its results. These parameters are simply summaries of recent experience. Examples include the rates of election of the Survivor Benefit Plan and member-spouse age differences.

A description of the various valuation program parameters is given in Table F-1.

TABLE F-1

DESCRIPTION OF THE MAJOR VALUATION PROGRAM PARAMETERS

<u>Item</u>	<u>Description</u>
Salary Increase	A parameter for each of the next ten fiscal years specifies the annual percentage increase in basic pay for the active duty and reserve members. An 11th parameter specifies the percentage increase for all subsequent years.
CPI	A parameter for each of the next nine fiscal years specifies the annual inflation (Consumer Price Index - CPI) rate for that year. A tenth parameter specifies the inflation rate for all subsequent years.
Interest Rate	A parameter for each of the next nine fiscal years specifies the annual interest rate for that year. A tenth parameter specifies the interest rate for all subsequent years.
Average Monthly Amount of Retired Pay for Reservists	Self-explanatory. This is given by years of <i>active</i> service and by officer/enlisted status.
Multiplier for Reserve Pay	This is the factor by which base pay must be multiplied for reservists to get the gross monthly retirement amounts.
Member-Survivor Age Difference	When a member dies, any survivor is assumed to be a certain number of years younger (or older) than the member. This is given separately for active vs. retired and by type of retirement (i.e., nondisability, temporary disability, permanent disability) and type of survivor.
Member Election of Spouse or Spouse/Child SBP Coverage	This gives the percentage of members by age and officer/enlisted status who have elected spouse or spouse/child coverage under the Survivor Benefit Plan.

TABLE F-1 (continued)

Full Offsets	A member who is disabled may waive all or part of his or her retired pay to receive benefits from the Veterans Administration. Furthermore, a member who decides to convert his or her military service to receive a federal civilian retirement also waives his or her right to a military pension. These amounts are not included when computing normal costs or unfunded liabilities. The percent of retired pay of new retirees that is fully offset is given by officer/enlisted status and type of retirement (disability, nondisability).
SBP Base Assumption	Under the Survivor Benefit Plan the retiring serviceman may elect to use <i>less</i> than his full retired pay as a basis for computing a survivor annuity. Here the SBP base is expressed as a percentage of the net pay. This is given by age and officer/enlisted status. For survivors under age 62, the SBP annuity is 55% of the base amount.
RSFPP Benefit Assumption	For RSFPP, this gives the ratio of the survivor payment to the net amount of retired pay.
Partial VA Offsets	It is possible to have part of DoD retired pay offset by VA compensation. The percent of retired pay of paid new retirees that is partially offset is the parameter. They are given by officer/enlisted and disability/nondisability status.
Disability Factor	When an active duty member is disabled and receives DoD disability retirement, his retired pay is based on a minimum (30%), a maximum (75%), and a disability rating. These are combined into one factor, expressed as a percentage of basic pay, and given by length of service and type of retirement (temporary disability/permanent disability).

TABLE F-1 (continued)

Percent Active Duty Married	When a member dies from a Service-connected disability or on active duty, any surviving spouse is eligible for Dependency and Indemnity Compensation (DIC) from the Veterans Administration. In addition, if the member dies in the line of duty or after completing 20 years of service, the surviving spouse is eligible for a DIC supplement from DoD which would bring the total amount of the DIC up to 55% of the member's retired pay. The DIC supplement comes from the Military Retirement Fund. Thus, it is necessary to estimate the percent of active duty.
Blow-Up Factors for the Selected Reserve	Newly retired reservists at age 60 as a ratio to ($\frac{1}{2}$ of the selected reservists at age 59 plus all of the selected reservists at age 60). This is given by officer/enlisted status and by current fiscal year/subsequent fiscal years.
Reservists' Election of SBP	Proportion of reservists who have elected the Survivor Benefit Plan by officer/enlisted status.
Partial DIC Offsets	This gives the product of (1) the proportion of members with a partial DIC offset and (2) the ratio of the offset to the SBP annuity. The number is given by gross SBP.
Full DIC Waivers for Survivors Eligible for DIC Supplement	In some cases the DIC amount itself is already 55% of retired pay, so that the surviving spouse of a member is not entitled to any DIC supplement from DoD. For this, we estimate the percentage of surviving spouses who receive no DoD compensation.

TABLE F-1 (continued)

Rates for Electing SBP Options	Given that a member elects SBP, there is still a Choice of options: spouse, child, spouse and child, or insurable interest (some other designated beneficiary in the absence of a spouse or child). These are expressed as ratios to those electing any spouse coverage (including spouse/child), and are given by age and officer/enlisted status.
Reduction Factors for SBP	Premium amounts, as a percent of retired pay, by age, officer/enlisted status, and active/reserve.
Rates for Election of RSFPP Options	Given that a member elected an RSFPP (Retired Servicemen's Family Protection Plan, now replaced by SBP for new retirees) option, there was a choice of options: spouse, child, or spouse and child. These are expressed as ratios to those electing any spouse coverage (including spouse/child), and are given by age and officer/enlisted status.
Reserve New Entrants	Reserve new entrants per 100,000 active duty new entrants. This includes only the reservists who show up on the file for the first time with less than a full year of active duty.
Reserve Points Earned	Average reserve points earned annually.
Rounding Assumptions for Partially Completed Years of Service	This parameter assumes a distribution for partially completed years of service and the effect those partial years have on retired pay.
REDUX bonus election proportion	REDUX formula members have the choice of receiving High-3 benefits or staying under the REDUX formula and receiving a lump-sum \$30,000 payment. This parameter is the proportion electing the latter option.

Initial Pay of 16-year-old Active Duty Officer

This value is used to allocate some of the Selected Reserve retirement benefits to the active duty side, thus linking the radixes and pay of the active duty and part-time members.

APPENDIX G

ACTIVE DUTY RATES

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ACTIVE DUTY RATES

The active duty rates consist principally of decrement rates related to the probabilities of a member leaving a category of Military Service for a specific cause. In addition, they include a new entrant distribution, a set of reentrant ratios, and ratios for promotion and merit pay increases.

The active duty decrement rates are used to project active duty deaths, temporary and permanent disability retirements, nondisability retirements, and withdrawals (i.e., other active duty losses). In addition, the active duty decrements include rates of transfer between officer and enlisted status. The death rates are given by age nearest birthday for officers and enlistees separately. The remaining decrement rates are given by completed years of active service for officers and enlistees separately. The formulas used to create the active duty rates are given on page G-3. The fiscal years on which various rates are based are given on page G-4. Because of the large number of cases available and the need to avoid smoothing through real discontinuities, the nondisability retirement and withdrawal rates were not graduated (smoothed). The remaining rates were broken into ranges where assumptions of continuity were reasonable. Except for a few of these ranges where means or ungraduated rates were used, the remaining rates were smoothed using Whittaker-Henderson graduations.

A reentrant is defined as someone who is on active duty at year end, who was not on active duty a year earlier, and who is not a new entrant. The reentrant ratios give for each cell the expected number of reentrants per year, per active member, in the cell. The cells are defined by length of service and by officer/enlisted. The reentrant ratios are based on fiscal years 1982-89 and 1997-99.

The new entrant distribution gives the percentages of new entrants to the Services by age and by officer/enlisted status. The new entrant distribution is based on new entrants to military service in fiscal years 1982-89 and 1997-99.

The promotion and merit increase scales (PAMS) give the expected annual percentage increase in pay regardless of whether or not there are across-the-board increases in the active duty pay scale. The PAMS do not include adjustments for inflation or productivity increases. The current PAMS are based on longitudinal data obtained during fiscal years 1982-89 and 1997-99. They are defined by length of service, by entry age, and by officer/enlisted status. The PAMS were created by first arraying the average pay for each entry along a dimension of increasing years of service. The PAMS were then computed by dividing the average pay at the next year of service by the average pay at the current year of service.

ACTIVE DUTY RATE FORMULAS

WITHDRAWAL FROM ACTIVE DUTY (by completed years of service)

$$\frac{\text{Withdrawals during year}}{\text{Number at beginning of year}}$$

ACTIVE DEATH (by age nearest birthday)

$$\frac{\text{Deaths during year}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Withdrawals} + \text{nondisability retirements during year})]}$$

NONDISABILITY RETIREMENT (by completed years of service)

$$\frac{\text{New retirees during year}}{\text{Number at beginning of year}}$$

TEMPORARY DISABILITY RETIREMENT (by completed years of service)

$$\frac{\text{New temporary disabilities during year}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Withdrawals} + \text{nondisability retirements during year})]}$$

PERMANENT DISABILITY RETIREMENT (by completed years of service)

$$\frac{\text{New permanent disabilities during year}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Withdrawals} + \text{nondisability retirements during year})]}$$

TRANSFER RATES (by completed years of service)

$$\frac{\text{Transfers to category during year}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Withdrawals} + \text{nondisability retirements during year})]}$$

REENTRANT RATIOS (by completed years of service)

$$\frac{\text{Number reentering during year}}{\text{Number at beginning of year}}$$

PROMOTION AND MERIT SCALE (by entry age and completed years of service)

$$\frac{\text{Average basic pay at next year of service}}{\text{Average basic pay at current year of service}}$$

SUMMARY OF YEARS ON WHICH RATES ARE BASED

Fiscal Years on Which Rates Are Based

Rate	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>
Death									X	X	X	X	X	X	X	X	X	
Temporary Disability Retirement	X	X	X	X	X	X	X	X								X	X	X
Permanent Disability Retirement	X	X	X	X	X	X	X	X								X	X	X
Nondisability Retirement	X	X	X	X	X	X	X	X								X	X	X
Withdrawal (other losses)	X	X	X	X	X	X	X	X								X	X	X
Transfer	X	X	X	X	X	X	X	X								X	X	X
New Entrant Distribution	X	X	X	X	X	X	X	X								X	X	X
Reentrant Ratios	X	X	X	X	X	X	X	X								X	X	X
Promotion and Merit Scales	X	X	X	X	X	X	X	X								X	X	X

DEATH RATES FOR NONRETIRED MILITARY

(Age Nearest Birthday)

<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>	<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>
16	0.00032	0.00072	39	0.00041	0.00062
17	0.00035	0.00079	40	0.00041	0.00067
18	0.00037	0.00085	41	0.00042	0.00072
19	0.00039	0.00086	42	0.00042	0.00077
20	0.00041	0.00084	43	0.00045	0.00081
21	0.00044	0.00081	44	0.00048	0.00085
22	0.00045	0.00076	45	0.00053	0.00090
23	0.00054	0.00069	46	0.00058	0.00097
24	0.00060	0.00062	47	0.00064	0.00105
25	0.00064	0.00056	48	0.00070	0.00115
26	0.00066	0.00052	49	0.00076	0.00128
27	0.00066	0.00049	50	0.00082	0.00143
28	0.00064	0.00048	51	0.00089	0.00161
29	0.00062	0.00049	52	0.00095	0.00181
30	0.00058	0.00049	53	0.00102	0.00200
31	0.00054	0.00050	54	0.00108	0.00221
32	0.00051	0.00050	55	0.00120	0.00245
33	0.00048	0.00051	56	0.00133	0.00274
34	0.00046	0.00051	57	0.00151	0.00310
35	0.00045	0.00052	58	0.00171	0.00350
36	0.00043	0.00053	59	0.00193	0.00396
37	0.00043	0.00055	60	0.00219	0.00447
38	0.00042	0.00059			

Note: These death rates should not be compared to other published rates or used for other purposes without examining the exposure formula used in the derivation. These rates may appear lower.

NONDISABILITY, TEMPORARY DISABILITY & PERMANENT DISABILITY RETIREMENT RATES

OFFICERS (BY COMPLETED YEARS OF SERVICE)

<u>Service</u>	<u>Non- disability</u>	<u>Temporary Disability</u>	<u>Permanent Disability</u>
0	0.00000	0.00051	0.00012
1	0.00000	0.00087	0.00009
2	0.00000	0.00099	0.00011
3	0.00000	0.00115	0.00016
4	0.00000	0.00130	0.00017
5	0.00000	0.00129	0.00018
6	0.00000	0.00128	0.00033
7	0.00000	0.00126	0.00032
8	0.00000	0.00124	0.00032
9	0.00000	0.00121	0.00033
10	0.00000	0.00118	0.00032
11	0.00000	0.00115	0.00031
12	0.00000	0.00111	0.00031
13	0.00000	0.00107	0.00031
14	0.00000	0.00103	0.00033
15	0.00000	0.00098	0.00038
16	0.00000	0.00094	0.00046
17	0.00000	0.00089	0.00056
18	0.00000	0.00084	0.00065
19	0.24055	0.00275	0.00145
20	0.21309	0.00306	0.00186
21	0.16279	0.00226	0.00170
22	0.14225	0.00266	0.00161
23	0.14163	0.00313	0.00190
24	0.13776	0.00272	0.00182
25	0.17677	0.00319	0.00158
26	0.18520	0.00541	0.00261
27	0.21555	0.00462	0.00194
28	0.20353	0.00501	0.00339
29	0.47452	0.00795	0.00459
30	0.38848	0.01134	0.00630
31	0.29656	0.00848	0.00446
32	0.26316	0.00848	0.00446
33	0.26941	0.00848	0.00446
34	1.00000	0.00848	0.00446

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.

NONDISABILITY, TEMPORARY DISABILITY & PERMANENT DISABILITY RETIREMENT RATES

ENLISTED (BY COMPLETED YEARS OF SERVICE)

<u>Service</u>	<u>Non- disability</u>	<u>Temporary Disability</u>	<u>Permanent Disability</u>
0	0.00000	0.00124	0.00008
1	0.00000	0.00184	0.00018
2	0.00000	0.00219	0.00025
3	0.00000	0.00262	0.00031
4	0.00000	0.00233	0.00038
5	0.00000	0.00236	0.00044
6	0.00000	0.00239	0.00051
7	0.00000	0.00240	0.00058
8	0.00000	0.00241	0.00064
9	0.00000	0.00242	0.00071
10	0.00000	0.00241	0.00078
11	0.00000	0.00240	0.00089
12	0.00000	0.00238	0.00090
13	0.00000	0.00234	0.00093
14	0.00000	0.00230	0.00090
15	0.00000	0.00225	0.00113
16	0.00000	0.00218	0.00127
17	0.00000	0.00211	0.00135
18	0.00000	0.00202	0.00141
19	0.41610	0.00737	0.00423
20	0.30413	0.00699	0.00486
21	0.26512	0.00548	0.00375
22	0.23263	0.00589	0.00381
23	0.26045	0.00507	0.00361
24	0.16114	0.00504	0.00328
25	0.29534	0.00578	0.00320
26	0.24573	0.00644	0.00357
27	0.25008	0.00730	0.00401
28	0.20681	0.00752	0.00562
29	0.73967	0.01515	0.00751
30	0.58234	0.02688	0.01132
31	0.42527	0.02243	0.00303
32	0.52915	0.02243	0.00303
33	0.36341	0.02243	0.00303
34	1.00000	0.02243	0.00303

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.

WITHDRAWAL, REENTRANT, AND NET LOSS RATES FOR ACTIVE DUTY PERSONNEL

OFFICERS (BY COMPLETED YEARS OF SERVICE)

<u>Service</u>	<u>Withdrawal</u>	<u>Reentrant</u>	<u>Net Loss</u>
0	0.02174	0.11396	-0.09222
1	0.02292	0.02737	-0.00445
2	0.08449	0.02111	0.06338
3	0.11869	0.02417	0.09452
4	0.10029	0.01435	0.08594
5	0.09043	0.01306	0.07737
6	0.09615	0.01156	0.08459
7	0.08380	0.00997	0.07383
8	0.07228	0.00839	0.06389
9	0.05860	0.00694	0.05166
10	0.06714	0.00568	0.06146
11	0.05605	0.00469	0.05136
12	0.03763	0.00400	0.03363
13	0.02325	0.00366	0.01959
14	0.01663	0.00252	0.01411
15	0.01056	0.00221	0.00835
16	0.00783	0.00205	0.00578
17	0.00547	0.00193	0.00354
18	0.00242	0.00174	0.00068
19	0.00000	0.00139	-0.00139
20	0.00000	0.00151	-0.00151
21	0.00000	0.00157	-0.00157
22	0.00000	0.00161	-0.00161
23	0.00000	0.00164	-0.00164
24	0.00000	0.00169	-0.00169
25	0.00000	0.00180	-0.00180
26	0.00000	0.00199	-0.00199
27	0.00000	0.00231	-0.00231
28	0.00000	0.00278	-0.00278
29	0.00000	0.00344	-0.00344
30	0.00000	0.00658	-0.00658
31	0.00000	0.00455	-0.00455
32	0.00000	0.00779	-0.00779
33	0.00000	0.00737	-0.00737
34	0.00000	0.00000	0.00000

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.

**WITHDRAWAL, REENTRANT, AND NET LOSS RATES
FOR ACTIVE DUTY PERSONNEL**

ENLISTED (BY COMPLETED YEARS OF SERVICE)

<u>Service</u>	<u>Withdrawal</u>	<u>Reentrant</u>	<u>Net Loss</u>
0	0.10365	0.02826	0.07539
1	0.11686	0.00610	0.11076
2	0.23581	0.01688	0.21893
3	0.38351	0.03133	0.35218
4	0.14331	0.01289	0.13042
5	0.16240	0.01066	0.15174
6	0.12406	0.00886	0.11520
7	0.12101	0.00797	0.11304
8	0.09350	0.00682	0.08668
9	0.09044	0.00544	0.08500
10	0.05784	0.00412	0.05372
11	0.05054	0.00320	0.04734
12	0.04103	0.00246	0.03857
13	0.02841	0.00191	0.02650
14	0.02716	0.00155	0.02561
15	0.01682	0.00141	0.01541
16	0.01168	0.00115	0.01053
17	0.00825	0.00106	0.00719
18	0.00410	0.00116	0.00294
19	0.00000	0.00129	-0.00129
20	0.00000	0.00155	-0.00155
21	0.00000	0.00141	-0.00141
22	0.00000	0.00129	-0.00129
23	0.00000	0.00117	-0.00117
24	0.00000	0.00112	-0.00112
25	0.00000	0.00108	-0.00108
26	0.00000	0.00104	-0.00104
27	0.00000	0.00087	-0.00087
28	0.00000	0.00066	-0.00066
29	0.00000	0.00043	-0.00043
30	0.00000	0.00165	-0.00165
31	0.00000	0.00289	-0.00289
32	0.00000	0.00438	-0.00438
33	0.00000	0.00484	-0.00484
34	0.00000	0.00000	0.00000

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.

PERCENTAGE DISTRIBUTION OF NEW ENTRANTS

(Age Nearest Birthday)

Age	Officers	Enlisted	Total
17	0.00000	0.00137	0.00137
18	0.00000	0.13086	0.13086
19	0.00000	0.26042	0.26042
20	0.00002	0.19615	0.19617
21	0.00025	0.11235	0.11260
22	0.01345	0.06996	0.08341
23	0.01995	0.04751	0.06746
24	0.01181	0.03349	0.04530
25	0.00587	0.02347	0.02934
26	0.00471	0.01620	0.02091
27	0.00367	0.01123	0.01490
28	0.00240	0.00822	0.01062
29	0.00176	0.00556	0.00732
30	0.00143	0.00379	0.00522
31	0.00108	0.00283	0.00391
32	0.00082	0.00210	0.00292
33	0.00064	0.00167	0.00231
34	0.00053	0.00132	0.00185
35	0.00043	0.00116	0.00159
36	0.00028	0.00031	0.00059
37	0.00018	0.00003	0.00021
38	0.00015	0.00000	0.00015
39	0.00012	0.00000	0.00012
40	0.00010	0.00000	0.00010
41	0.00007	0.00000	0.00007
42	0.00005	0.00000	0.00005
43	0.00004	0.00000	0.00004
44	0.00004	0.00000	0.00004
45	0.00002	0.00000	0.00002
46	0.00003	0.00000	0.00003
47	0.00001	0.00000	0.00001
48	0.00001	0.00000	0.00001
49	0.00002	0.00000	0.00002
50	0.00001	0.00000	0.00001
51	0.00001	0.00000	0.00001
52	0.00001	0.00000	0.00001
53	0.00001	0.00000	0.00001
54	0.00001	0.00000	0.00001
55	0.00001	0.00000	0.00001
Total	0.07000	0.93000	1.00000

TRANSFER RATES (BY COMPLETED YEARS OF SERVICE)

Service	Officer to Enlisted	Enlisted to Officer
0	0.00065	0.00286
1	0.00015	0.00095
2	0.00007	0.00092
3	0.00021	0.00119
4	0.00021	0.00189
5	0.00013	0.00223
6	0.00021	0.00298
7	0.00020	0.00383
8	0.00020	0.00522
9	0.00019	0.00613
10	0.00019	0.00646
11	0.00066	0.00645
12	0.00101	0.00646
13	0.00084	0.00609
14	0.00133	0.00483
15	0.00163	0.00366
16	0.00184	0.00256
17	0.00088	0.00164
18	0.00021	0.00104
19	0.00011	0.00089
20	0.00009	0.00109
21	0.00004	0.00103
22	0.00002	0.00085
23	0.00000	0.00107
24	0.00000	0.00056
25	0.00000	0.00009
26	0.00000	0.00004
27	0.00000	0.00005
28	0.00000	0.00000
29	0.00000	0.00000
30	0.00000	0.00000
31	0.00000	0.00000
32	0.00000	0.00000
33	0.00000	0.00000
34	0.00000	0.00000

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.

PROMOTION AND MERIT BASIC PAY INCREASE RATIOS

OFFICER

YOS	ENTRY AGE										
	16	17	18	19	20	21	22	23	24	25	26
1	1.04041	1.06664	1.02050	1.03021	1.05068	1.01946	1.01643	1.05225	1.08642	1.08346	1.04806
2	1.03519	1.06141	1.03368	0.96916	1.11532	1.12896	1.26576	1.26007	1.24224	1.21533	1.13276
3	1.02639	1.05396	1.03646	1.11150	1.12140	1.19965	1.16456	1.14616	1.12977	1.11964	1.07872
4	1.01436	1.04689	1.07309	1.01931	1.07396	1.08283	1.12137	1.10940	1.09135	1.07913	1.05695
5	0.99913	1.04176	1.01640	1.04508	1.04774	1.02599	1.02158	1.02833	1.03494	1.03569	1.03282
6	0.99586	1.03979	1.07187	1.05053	1.04160	1.04157	1.04692	1.03976	1.03504	1.04140	1.05231
7	1.00778	1.03963	1.02140	1.02209	1.01077	1.00894	1.00469	1.01489	1.02345	1.02617	1.02260
8	1.03179	1.03950	1.05531	1.05080	1.03565	1.03356	1.04632	1.03904	1.03468	1.03907	1.03845
9	1.04509	1.03939	1.02270	1.02126	1.01584	1.01207	1.00834	1.01629	1.02188	1.02096	1.01949
10	1.05920	1.04698	1.05809	1.05065	1.03976	1.03624	1.05164	1.04338	1.03694	1.03746	1.03556
11	1.06974	1.03776	1.01964	1.02334	1.02549	1.02053	1.02630	1.04434	1.05236	1.04209	1.02902
12	1.07699	1.05820	1.06115	1.05429	1.04739	1.04266	1.07898	1.06654	1.05353	1.04784	1.03950
13	1.06352	1.02732	1.02272	1.02619	1.02181	1.01964	1.00869	1.01506	1.01893	1.02066	1.01887
14	1.03662	1.03788	1.05486	1.05102	1.04197	1.03493	1.03284	1.02862	1.02613	1.02709	1.02831
15	1.01350	1.02736	1.02514	1.02515	1.02275	1.02230	1.01516	1.01871	1.02326	1.02495	1.02402
16	1.01367	1.05270	1.04270	1.03930	1.03902	1.03808	1.04971	1.05040	1.04662	1.04112	1.03624
17	1.02903	1.02914	1.02391	1.02593	1.02368	1.02415	1.03211	1.03219	1.02917	1.02970	1.02417
18	1.04080	1.03511	1.04821	1.04375	1.04044	1.03528	1.03475	1.02929	1.02571	1.02561	1.02748
19	1.04257	1.02084	1.02325	1.02406	1.02029	1.01527	1.00754	1.00990	1.01133	1.01378	1.01582
20	1.04649	1.04652	1.04160	1.03510	1.03337	1.03894	1.04222	1.03981	1.04154	1.04455	1.04559
21	1.06276	1.01958	1.02310	1.02245	1.02133	1.01964	1.03754	1.04453	1.04420	1.04041	1.03211
22	1.08119	1.04010	1.03100	1.02911	1.02854	1.04027	1.05944	1.05646	1.05231	1.04742	1.03402
23	1.09785	1.02660	1.01885	1.02115	1.02108	1.02287	1.03062	1.02875	1.02769	1.02928	1.02122
24	1.09253	1.03324	1.02751	1.02487	1.03147	1.03044	1.03068	1.02606	1.02432	1.02270	1.01797
25	1.07456	1.03051	1.01877	1.02266	1.01965	1.02251	1.01402	1.01990	1.02351	1.02093	1.01015
26	1.04657	1.02735	1.03327	1.03706	1.03146	1.03251	1.04739	1.03805	1.03195	1.02434	1.01934
27	1.03475	1.02849	1.02391	1.02334	1.01964	1.01396	1.01556	1.01320	1.00942	1.00985	1.00829
28	1.03125	1.02550	1.02404	1.02275	1.02119	1.01747	1.02286	1.02550	1.02792	1.02690	1.01855
29	1.02959	1.02684	1.02596	1.02414	1.01430	1.02433	1.01946	1.01812	1.01212	1.01318	1.00450
30	1.03415	1.04607	1.05204	1.05995	1.05555	1.05035	1.05269	1.05320	1.04680	1.04778	1.02500
31	1.03974	1.03698	1.05594	1.04505	1.02081	1.02446	1.06659	1.07225	1.04559	1.07114	1.01535
32	1.04594	1.03926	1.04013	1.01547	1.01045	1.01910	1.05370	1.04733	1.02962	1.05341	1.03404
33	1.04890	1.04064	1.03284	1.02302	1.00587	1.02688	1.02777	1.03152	1.02865	1.02890	1.02691
34	1.05305	1.04122	1.01753	1.01809	1.02966	0.96936	0.91937	0.93648	0.98371	0.98835	1.03852

THE NUMBER THAT APPEARS, FOR EXAMPLE, IN THE COLUMN MARKED "20" AND THE ROW MARKED "2" IS THE RATIO OF BASIC PAY AT TWO YEARS OF SERVICE TO BASIC PAY AT ONE YEAR OF SERVICE FOR A MEMBER WHO ENTERED AT AGE 20.

PROMOTION AND MERIT BASIC PAY INCREASE RATIOS
ENLISTED

YOS	ENTRY AGE										
	16	17	18	19	20	21	22	23	24	25	26
1	1.13079	1.12945	1.14471	1.12421	1.10241	1.09637	1.09204	1.08658	1.08259	1.08089	1.08332
2	1.08881	1.11565	1.12077	1.11601	1.11432	1.11563	1.11780	1.11988	1.12117	1.12195	1.12306
3	1.06132	1.09966	1.09665	1.09501	1.09337	1.09293	1.09090	1.08784	1.08629	1.08545	1.08246
4	1.04928	1.09367	1.07707	1.06650	1.06167	1.06110	1.06029	1.06015	1.05965	1.05922	1.06113
5	1.03886	1.03115	1.02800	1.03380	1.03525	1.03442	1.03452	1.03479	1.03629	1.03672	1.03913
6	1.05369	1.06887	1.06327	1.05510	1.05254	1.05321	1.05414	1.05393	1.05380	1.05416	1.05338
7	1.02698	1.02670	1.02640	1.03286	1.03473	1.03400	1.03356	1.03374	1.03295	1.03248	1.03327
8	1.04244	1.08437	1.07341	1.06423	1.05993	1.05974	1.05977	1.05947	1.05935	1.06017	1.05610
9	1.03077	1.01951	1.02032	1.02537	1.02764	1.02773	1.02732	1.02699	1.02724	1.02682	1.02682
10	1.02815	1.05681	1.05492	1.05033	1.04820	1.04757	1.04720	1.04721	1.04610	1.04609	1.04425
11	1.02874	1.02096	1.01937	1.02240	1.02437	1.02454	1.02343	1.02389	1.02317	1.02431	1.02356
12	1.03328	1.05454	1.05189	1.04696	1.04470	1.04302	1.04164	1.04061	1.03994	1.03961	1.03779
13	1.03492	1.01879	1.01830	1.02185	1.02262	1.02267	1.02276	1.02227	1.02211	1.02227	1.02089
14	1.03382	1.04537	1.04270	1.03834	1.03743	1.03535	1.03453	1.03261	1.03264	1.03120	1.02953
15	1.03339	1.01306	1.01883	1.02205	1.02248	1.02347	1.02251	1.02319	1.02249	1.02260	1.02243
16	1.03854	1.04301	1.04116	1.03822	1.03715	1.03465	1.03372	1.03307	1.03131	1.03067	1.02738
17	1.04728	1.01468	1.01901	1.02089	1.02106	1.02250	1.02165	1.02163	1.02151	1.02104	1.01923
18	1.05367	1.04244	1.04001	1.03720	1.03607	1.03332	1.03250	1.03156	1.03020	1.02910	1.02643
19	1.05490	1.01533	1.01640	1.01795	1.01756	1.01812	1.01841	1.01921	1.01871	1.01960	1.01792
20	1.05252	1.05900	1.06217	1.06267	1.06465	1.06762	1.07134	1.07111	1.07446	1.07507	1.07996
21	1.05078	1.04148	1.03578	1.03645	1.03609	1.03575	1.03852	1.04017	1.03877	1.04329	1.04157
22	1.05035	1.06484	1.06594	1.06071	1.05877	1.05791	1.05805	1.05705	1.05850	1.05260	1.05087
23	1.04869	1.02578	1.02639	1.03095	1.03287	1.03392	1.03374	1.03231	1.03325	1.03453	1.02764
24	1.04475	1.05891	1.06247	1.06032	1.06088	1.06237	1.05847	1.05749	1.05803	1.05489	1.04745
25	1.03956	1.02035	1.02218	1.02613	1.02650	1.02290	1.02260	1.01903	1.02097	1.02448	1.02175
26	1.03294	1.07748	1.07415	1.07267	1.07063	1.06596	1.06302	1.06382	1.05669	1.04211	1.03796
27	1.02636	1.01554	1.01718	1.01703	1.01605	1.01662	1.01847	1.01683	1.01832	1.02333	1.01595
28	1.02094	1.01151	1.01712	1.01777	1.01632	1.01504	1.01693	1.01613	1.01303	1.01163	1.01911
29	1.01561	1.01278	1.00673	1.00615	1.00716	1.00814	1.00720	1.00700	1.00473	1.00582	1.00270
30	1.01093	1.00198	1.01147	1.00679	1.00367	1.00713	1.00437	1.00009	1.00491	1.01018	1.00649
31	1.00659	1.00782	1.00644	1.00327	1.00363	1.00689	0.99464	1.00722	1.01154	1.00262	1.02991
32	1.00246	1.00479	1.00573	1.00340	0.99843	1.00008	1.02430	0.99702	1.00429	1.00010	1.00048
33	0.99835	1.00341	0.99852	0.99223	1.00770	1.00785	1.00092	0.99237	1.00317	0.99834	0.99833
34	0.99407	1.00329	1.01639	1.01287	0.99895	0.99495	0.99920	0.98769	1.00249	0.99713	1.02427

THE NUMBER THAT APPEARS, FOR EXAMPLE, IN THE COLUMN MARKED "20" AND THE ROW MARKED "2" IS THE RATIO OF BASIC PAY AT TWO YEARS OF SERVICE TO BASIC PAY AT ONE YEAR OF SERVICE FOR A MEMBER WHO ENTERED AT AGE 20.

APPENDIX H

DRILLING RESERVE RATES

	<u>Page</u>
Description.....	H-2
Selected Reserve Officer Separation Rates.....	H-3
Selected Reserve Enlisted Separation Rates	H-4
Selected Reserve Officer New Entrant/Reentrant Rates	H-5
Selected Reserve Enlisted New Entrant/Reentrant Rates	H-6

RESERVE RATES

The reserve rates consist of (1) separation rates, (2) the distribution of new entrants or reenetrants into the Selected Reserve, (3) a timing table that shows when new entrants or reenetrants enter, and (4) a table of expected pay for each cell to determine reserve payroll.

The Selected Reserve separation rates give the probability a Selected Reservist on duty at the beginning of the fiscal year leaves the Selected Reserve during the fiscal year. The Selected Reserve separation rates are given by age of reservist, by number of years of active duty service, and by whether the Selected Reservist is an officer or enlistee. A transfer from officer to enlisted status or vice versa is treated as a separation combined with a reenetrance.

The Selected Reserve separation rates are based on fiscal years 1989-91. In most cases the separation rates are not smoothed. However, cells with numerators of fewer than 20 cases were combined with other cells or smoothed by fitting equations to the data using weighted-least-squares regression. It is assumed that no Selected Reservist continues on duty past age 60. Pages H-3 and H-4 display the resulting Selected Reserve separation rates.

The distribution of new entrants and reenetrants into the Selected Reserve is used for both open group and closed group projections. This distribution gives the proportion of cases by officer/enlisted, age nearest birthday, and completed years of active duty. For this purpose, a new entrant or reenetrant is defined as someone who was actively on the Reserve Component Common Personnel Data System file at the end of a fiscal year, but not at the beginning. These percentage distributions were determined using fiscal years 1989-91, and are shown on pages H-5 and H-6.

The timing table has the same dimensions as the entrant/reenetrant distribution and operates in concordance with it. Every cell of the timing table has an integer representing the year in which persons in that cell should enter. For a normal cost run, cells with a 1 enter at the start of the projection; cells with a 2 enter the next year, and so on. For open-group runs all cells enter every year. For closed group runs, all cells except 1's enter after the first year, all cells except 1's or 2's enter after the second year, and so on. The timing table is based on fiscal years 1989-91.

The reserve expected pay tables are also used to estimate longevity increases other than the across-the-board pay increases. The current tables are based on fiscal years 1989-91. They are given by length of active service, by age, and by officer/enlisted. They were created by computing first the average pay in each cell as if the Reservist were on full-time active duty, and using the same pay table (July 1, 2001). Each cell was multiplied by paid points in that cell. Cells based on few observations were combined with other cells or smoothed using weighted least squares regression. The result was rescaled to be appropriate for the January 1, 2002 across-the-board pay increase.

Officer Selected Reserve Separation Rates

Completed Years Of Total Active Federal Military Service

Age	Under 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+
16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	0.0730	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	0.0730	0.1100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	0.0730	0.1100	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0730	0.1100	0.0370	0.0480	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	0.1040	0.1100	0.0370	0.0480	0.1830	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	0.1690	0.1100	0.0370	0.0480	0.1830	0.1590	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	0.1780	0.1100	0.0370	0.0480	0.1830	0.1590	0.2030	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	0.1530	0.1630	0.1610	0.1550	0.1830	0.1590	0.2030	0.1650	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.1370	0.1490	0.2090	0.1690	0.1830	0.1590	0.2030	0.1650	0.1370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26	0.1370	0.1490	0.1600	0.1810	0.1730	0.1590	0.2030	0.1650	0.1370	0.1590	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
27	0.1390	0.1240	0.1440	0.2070	0.1710	0.1590	0.2030	0.1650	0.1370	0.1590	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28	0.1400	0.1050	0.1350	0.1930	0.1830	0.1670	0.1700	0.1650	0.1370	0.1590	0.0980	0.2030	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
29	0.1350	0.1060	0.1360	0.1550	0.1650	0.1610	0.1650	0.2020	0.1370	0.1590	0.0980	0.2030	0.1050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
30	0.1340	0.1200	0.1500	0.1490	0.1520	0.1710	0.1250	0.1300	0.1370	0.1590	0.0980	0.2030	0.1050	0.1080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
31	0.1280	0.1000	0.1200	0.1430	0.1400	0.1440	0.1450	0.1420	0.1260	0.1590	0.0980	0.2030	0.1050	0.1080	0.1320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
32	0.1240	0.1030	0.1270	0.1340	0.1380	0.1350	0.1340	0.1240	0.1340	0.1470	0.0980	0.2030	0.1050	0.1080	0.1280	0.1400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33	0.1130	0.1130	0.1050	0.1240	0.1100	0.1170	0.1380	0.1200	0.1110	0.1120	0.0980	0.2030	0.1050	0.1080	0.1230	0.1350	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
34	0.1090	0.1060	0.1230	0.1290	0.1080	0.1260	0.1230	0.1330	0.1020	0.1140	0.0920	0.1270	0.1050	0.1080	0.1190	0.1310	0.0990	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0950	0.0830	0.1080	0.1190	0.1120	0.1110	0.1030	0.1180	0.0970	0.1190	0.0880	0.1180	0.1050	0.1080	0.1140	0.1260	0.1010	0.1010	0.1090	0.0000	0.0000	0.0000
36	0.0990	0.0900	0.1090	0.1200	0.1070	0.1110	0.1130	0.1070	0.1080	0.0910	0.0790	0.0860	0.1170	0.1080	0.1090	0.1210	0.1020	0.1020	0.1090	0.1090	0.0000	0.0000
37	0.0900	0.0900	0.0990	0.1100	0.0900	0.1110	0.0910	0.0990	0.0900	0.0940	0.0890	0.1070	0.0880	0.1080	0.1040	0.1160	0.1030	0.1030	0.1080	0.1080	0.1080	0.1080
38	0.0830	0.0790	0.0870	0.1040	0.1000	0.0980	0.1000	0.1120	0.1040	0.1090	0.1010	0.0800	0.0870	0.1210	0.0990	0.1110	0.1030	0.1030	0.1050	0.1050	0.1050	0.1050
39	0.0850	0.0770	0.0790	0.0800	0.0870	0.1000	0.1160	0.0940	0.0780	0.0910	0.0930	0.1050	0.0830	0.1300	0.0940	0.1060	0.1020	0.1020	0.1030	0.1030	0.1030	0.1030
40	0.0730	0.0740	0.0760	0.0780	0.0840	0.0820	0.0950	0.0970	0.0850	0.0980	0.0850	0.0940	0.0690	0.1320	0.0880	0.1010	0.1050	0.1050	0.1140	0.1140	0.1140	0.1140
41	0.0720	0.0750	0.0770	0.0780	0.0840	0.0920	0.1020	0.0880	0.1020	0.0920	0.0910	0.1240	0.0850	0.1070	0.0880	0.0990	0.1120	0.1120	0.1300	0.1300	0.1300	0.1300
42	0.0780	0.0730	0.0750	0.0830	0.0870	0.1010	0.0940	0.0920	0.0990	0.1030	0.1170	0.1210	0.0900	0.1330	0.0960	0.1020	0.1230	0.1230	0.1480	0.1480	0.1480	0.1480
43	0.0910	0.0870	0.0830	0.0990	0.0980	0.1120	0.1240	0.1260	0.1270	0.1440	0.1320	0.1350	0.1080	0.1310	0.1070	0.1090	0.1360	0.1360	0.1650	0.1650	0.1650	0.1650
44	0.0920	0.0880	0.0850	0.1040	0.1080	0.1140	0.1570	0.1250	0.1530	0.1480	0.1720	0.1260	0.0930	0.1540	0.1210	0.1210	0.1520	0.1520	0.1820	0.1820	0.1820	0.1820
45	0.0970	0.0910	0.1110	0.0940	0.1060	0.1230	0.1480	0.1500	0.1510	0.1670	0.1830	0.1180	0.1050	0.1440	0.1380	0.1380	0.1700	0.1700	0.2000	0.2000	0.2000	0.2000
46	0.0860	0.0920	0.0970	0.1060	0.1160	0.1390	0.1490	0.1440	0.1560	0.1340	0.1770	0.1460	0.0820	0.1550	0.1550	0.1580	0.1900	0.1900	0.2150	0.2150	0.2150	0.2150
47	0.0910	0.0960	0.0910	0.1030	0.1170	0.1270	0.1650	0.1290	0.1470	0.1610	0.1590	0.1450	0.1430	0.1650	0.1740	0.1830	0.2100	0.2100	0.2310	0.2310	0.2310	0.2310
48	0.0890	0.0880	0.1080	0.0990	0.1140	0.1290	0.1540	0.1260	0.1860	0.1770	0.1680	0.1380	0.1670	0.1750	0.1930	0.2100	0.2300	0.2300	0.2440	0.2440	0.2440	0.2440
49	0.1040	0.1250	0.1330	0.1260	0.1650	0.1550	0.2150	0.1680	0.1590	0.1930	0.1940	0.1560	0.1930	0.1850	0.2120	0.2380	0.2490	0.2490	0.2570	0.2570	0.2570	0.2570
50	0.1030	0.1180	0.1590	0.1510	0.1530	0.1870	0.2250	0.1790	0.1870	0.2140	0.1920	0.2150	0.2370	0.1930	0.2300	0.2660	0.2670	0.2670	0.2650	0.2650	0.2650	0.2650
51	0.1180	0.1310	0.1620	0.1470	0.1810	0.1900	0.2550	0.2740	0.1850	0.2150	0.2520	0.2450	0.2460	0.1990	0.2460	0.2920	0.2840	0.2840	0.2720	0.2720	0.2720	0.2720
52	0.1500	0.1800	0.1840	0.1870	0.2110	0.2000	0.2610	0.1560	0.2680	0.2370	0.2080	0.2260	0.2180	0.2030	0.2620	0.3150	0.2980	0.2980	0.2750	0.2750	0.2750	0.2750
53	0.1610	0.1800	0.1770	0.2200	0.1950	0.1770	0.2930	0.2740	0.2210	0.2240	0.2250	0.2330	0.2180	0.2050	0.2760	0.3320	0.3090	0.3090	0.2730	0.2730	0.2730	0.2730
54	0.1370	0.1630	0.1740	0.1710	0.1980	0.1960	0.2560	0.2380	0.2220	0.2250	0.2360	0.2360	0.2120	0.2050	0.2860	0.3390	0.3170	0.3170	0.2650	0.2650	0.2650	0.2650
55	0.1870	0.1970	0.1730	0.1560	0.2120	0.1950	0.2520	0.2420	0.2230	0.2160	0.1990	0.2350	0.1990	0.2010	0.2950	0.3350	0.3210	0.3210	0.2520	0.2520	0.2520	0.2520
56	0.1320	0.1610	0.1540	0.1460	0.1610	0.1880	0.2370	0.2430	0.2160	0.2050	0.1770	0.2290	0.1770	0.1950	0.3010	0.3150	0.3200	0.3200	0.2320	0.2320	0.2320	0.2320
57	0.1480	0.1600	0.1300	0.1610	0.1810	0.1790	0.2140	0.2410	0.2040	0.1890	0.1480	0.2180	0.1470	0.1840	0.3030	0.2750	0.3150	0.3150	0.2040	0.2040	0.2040	0.2040
58	0.1190	0.1320	0.1280	0.1540	0.1670	0.1640	0.1820	0.2360	0.1880	0.1980	0.1880	0.2010	0.1070	0.1670	0.3030	0.2120	0.3040	0.3040	0.1680	0.1680	0.1680	0.1680
59	0.1550	0.1490	0.1650	0.1770	0.1860	0.1930	0.1990	0.2030	0.2060	0.2080	0.2090	0.2090	0.2080	0.2070	0.2040	0.2010	0.1970	0.1970	0.1860	0.1860	0.1860	0.1860
60+	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Enlisted Selected Reserve Separation Rates

Completed Years Of Total Active Federal Military Service

Age	Under 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+
16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	0.1370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	0.1690	0.1930	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	0.2030	0.1930	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.1960	0.1870	0.1900	0.1930	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	0.1980	0.2030	0.2390	0.2580	0.3160	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	0.2040	0.2200	0.2690	0.2910	0.2690	0.2780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	0.2400	0.2280	0.3160	0.3420	0.3390	0.3040	0.2780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	0.2550	0.2670	0.3430	0.3610	0.3720	0.2980	0.2780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.2430	0.2620	0.3210	0.3290	0.3330	0.3180	0.3510	0.3500	0.2780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26	0.2240	0.2660	0.2840	0.2910	0.2820	0.2880	0.3260	0.3390	0.3850	0.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
27	0.2090	0.2530	0.2590	0.2630	0.2510	0.2520	0.2770	0.2880	0.3160	0.3120	0.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28	0.1900	0.2390	0.2340	0.2400	0.2230	0.2270	0.2430	0.2690	0.2790	0.2720	0.2280	0.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
29	0.1840	0.2330	0.2110	0.2240	0.2150	0.2170	0.2330	0.2380	0.2440	0.2420	0.2900	0.2000	0.1840	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
30	0.1780	0.2130	0.2080	0.2050	0.1940	0.1960	0.2100	0.2320	0.2120	0.2300	0.2460	0.2450	0.3920	0.1840	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
31	0.1620	0.1940	0.1940	0.1930	0.1850	0.1880	0.1930	0.2090	0.1980	0.1820	0.2270	0.2480	0.2560	0.1840	0.2810	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
32	0.1470	0.1790	0.1740	0.1740	0.1630	0.1780	0.1830	0.2020	0.1800	0.1870	0.1950	0.2320	0.2600	0.3070	0.2600	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33	0.1410	0.1520	0.1480	0.1560	0.1520	0.1480	0.1560	0.1860	0.1760	0.1750	0.1780	0.2170	0.2040	0.2190	0.2400	0.2400	0.1930	0.0000	0.0000	0.0000	0.0000	0.0000
34	0.1320	0.1440	0.1380	0.1390	0.1410	0.1340	0.1440	0.1500	0.1510	0.1610	0.1710	0.1870	0.1870	0.1890	0.2210	0.2210	0.2750	0.1900	0.0000	0.0000	0.0000	0.0000
35	0.1180	0.1190	0.1370	0.1380	0.1340	0.1230	0.1260	0.1480	0.1230	0.1550	0.1830	0.1620	0.1710	0.1820	0.2030	0.2030	0.1860	0.1860	0.1860	0.0000	0.0000	0.0000
36	0.1050	0.1150	0.1160	0.1210	0.1150	0.1160	0.1220	0.1150	0.1160	0.1410	0.1380	0.1450	0.1460	0.1990	0.1870	0.1870	0.1810	0.1810	0.1810	0.0000	0.0000	0.0000
37	0.0890	0.1030	0.1180	0.1090	0.1050	0.1230	0.1140	0.1100	0.1030	0.1170	0.1320	0.1160	0.1480	0.1580	0.1720	0.1720	0.3420	0.4190	0.4190	0.4190	0.4190	0.4190
38	0.0900	0.0960	0.1060	0.1040	0.1040	0.0920	0.1050	0.1170	0.1170	0.1050	0.1140	0.1380	0.1420	0.1540	0.1560	0.1580	0.3220	0.3870	0.3870	0.3870	0.3870	0.3870
39	0.0970	0.0930	0.0960	0.0950	0.0910	0.0990	0.1180	0.1070	0.1080	0.1090	0.1040	0.1460	0.1300	0.1280	0.1540	0.1510	0.3010	0.3550	0.3550	0.3550	0.3550	0.3550
40	0.1000	0.0870	0.0910	0.0920	0.0790	0.1010	0.0940	0.1010	0.1260	0.1240	0.1210	0.1150	0.1430	0.1650	0.1560	0.1490	0.2810	0.3260	0.3260	0.3260	0.3260	0.3260
41	0.0990	0.0880	0.0860	0.0880	0.0820	0.0930	0.0970	0.1000	0.1190	0.1210	0.1370	0.1630	0.1230	0.1500	0.1590	0.1490	0.2590	0.2970	0.2970	0.2970	0.2970	0.2970
42	0.1040	0.0830	0.0840	0.0890	0.0860	0.0860	0.1120	0.1060	0.1130	0.1310	0.1380	0.1420	0.1410	0.1720	0.1630	0.1480	0.2400	0.2710	0.2710	0.2710	0.2710	0.2710
43	0.1070	0.0850	0.0830	0.0860	0.0760	0.0980	0.0940	0.1180	0.1110	0.1590	0.1240	0.1610	0.1490	0.1590	0.1660	0.1480	0.2210	0.2460	0.2460	0.2460	0.2460	0.2460
44	0.1100	0.0890	0.0870	0.0820	0.0830	0.0940	0.1100	0.1130	0.1200	0.1580	0.1740	0.1570	0.1750	0.1670	0.1710	0.1480	0.2030	0.2230	0.2230	0.2230	0.2230	0.2230
45	0.1070	0.0850	0.0780	0.0850	0.0820	0.0860	0.1170	0.0990	0.1470	0.1300	0.1750	0.1820	0.1670	0.1740	0.1760	0.1490	0.1860	0.2010	0.2010	0.2010	0.2010	0.2010
46	0.0990	0.0990	0.0810	0.0810	0.0830	0.1050	0.1220	0.1100	0.1170	0.1750	0.1520	0.1990	0.1640	0.1810	0.1800	0.1500	0.1720	0.1830	0.1830	0.1830	0.1830	0.1830
47	0.1070	0.0870	0.0890	0.0850	0.0840	0.1100	0.1170	0.1190	0.1310	0.1910	0.1510	0.1300	0.1620	0.1870	0.1850	0.1510	0.1600	0.1660	0.1660	0.1660	0.1660	0.1660
48	0.1050	0.1040	0.0880	0.0880	0.0830	0.0950	0.1080	0.1300	0.1300	0.1230	0.1450	0.1450	0.1600	0.1920	0.1880	0.1520	0.1500	0.1520	0.1520	0.1520	0.1520	0.1520
49	0.1060	0.0900	0.0800	0.0860	0.0910	0.1160	0.1090	0.1280	0.1230	0.1650	0.1390	0.1890	0.1590	0.1970	0.1930	0.1550	0.1440	0.1430	0.1430	0.1430	0.1430	0.1430
50	0.1110	0.0920	0.0890	0.0960	0.0910	0.1020	0.1360	0.1310	0.1220	0.1230	0.1590	0.1590	0.1590	0.2000	0.1950	0.1560	0.1400	0.1350	0.1350	0.1350	0.1350	0.1350
51	0.1110	0.0840	0.0810	0.0920	0.0970	0.0930	0.0960	0.1210	0.1450	0.1730	0.1600	0.1660	0.1600	0.2010	0.1980	0.1580	0.1390	0.1320	0.1320	0.1320	0.1320	0.1320
52	0.1170	0.0860	0.0890	0.0930	0.0940	0.0890	0.1280	0.1210	0.1400	0.1640	0.1650	0.1640	0.1620	0.2020	0.1990	0.1600	0.1410	0.1330	0.1330	0.1330	0.1330	0.1330
53	0.1230	0.0950	0.0860	0.0810	0.1010	0.1100	0.0940	0.1470	0.1390	0.1780	0.1620	0.1600	0.1670	0.2000	0.1980	0.1620	0.1470	0.1400	0.1400	0.1400	0.1400	0.1400
54	0.1170	0.0920	0.0880	0.0960	0.0950	0.1130	0.1450	0.1510	0.1640	0.1750	0.1660	0.1660	0.1740	0.1960	0.1970	0.1650	0.1500	0.1500	0.1500	0.1500	0.1500	0.1500
55	0.1820	0.1150	0.1130	0.1190	0.1360	0.1550	0.1380	0.1470	0.1560	0.2200	0.1900	0.1750	0.1840	0.1890	0.1930	0.1670	0.1650	0.1660	0.1660	0.1660	0.1660	0.1660
56	0.1570	0.1160	0.1220	0.1230	0.1470	0.1820	0.1770	0.1520	0.1430	0.2120	0.1990	0.1880	0.1980	0.1800	0.1790	0.1690	0.1770	0.1880	0.1880	0.1880	0.1880	0.1880
57	0.1640	0.1250	0.1150	0.1380	0.1450	0.1610	0.1480	0.1570	0.1970	0.1940	0.1890	0.2060	0.2160	0.1680	0.1790	0.1710	0.1920	0.2170	0.2170	0.2170	0.2170	0.2170
58	0.1520	0.1150	0.1130	0.1510	0.1630	0.1700	0.1530	0.1620	0.2050	0.1960	0.1850	0.2270	0.2390	0.1520	0.1670	0.1730	0.2080	0.2540	0.2540	0.2540	0.2540	0.2540
59	0.2400	0.1860	0.1950	0.2060	0.2160	0.2080	0.2400	0.2410	0.2420	0.2420	0.2410	0.2390	0.2360	0.2310	0.2250	0.2170	0.2080	0.1980	0.1860	0.1720	0.1570	0.1570
60+	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Officer Selected Reserve New Entrant Rates *

Completed Years Of Total Active Federal Military Service

Age	Under 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	21	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	303	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	469	17	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	453	20	24	16	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	345	21	32	32	9	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	293	20	41	62	20	4	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
27	266	20	45	113	69	16	4	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0
28	249	17	37	98	99	51	12	5	4	1	2	2	0	0	0	0	0	0	0	0	0	0
29	224	11	33	89	85	70	40	15	5	1	2	2	2	0	0	0	0	0	0	0	0	0
30	229	9	25	77	68	58	58	63	13	3	2	1	1	1	0	0	0	0	0	0	0	0
31	183	7	27	64	62	50	45	83	41	8	4	1	3	1	1	0	0	0	0	0	0	0
32	174	9	25	55	48	39	38	64	60	30	8	2	2	2	1	1	0	0	0	0	0	0
33	155	6	20	44	49	31	38	41	39	37	29	9	3	1	1	0	1	0	0	0	0	0
34	120	8	14	38	41	27	29	36	35	29	41	45	7	4	1	1	1	0	0	0	0	0
35	113	7	17	38	33	25	27	32	28	26	32	55	16	5	2	1	1	0	0	0	0	0
36	96	6	14	30	29	17	23	21	22	22	23	38	24	12	4	2	2	1	0	1	0	0
37	90	7	11	28	23	21	17	15	15	17	19	30	19	13	8	3	1	1	0	1	0	0
38	71	5	13	26	20	16	18	15	15	16	13	23	19	11	12	4	2	1	1	0	1	0
39	73	10	17	18	20	16	17	14	13	10	8	20	13	9	9	5	2	1	1	1	1	0
40	77	9	19	20	17	15	13	11	12	9	10	10	11	8	7	6	4	2	0	0	1	0
41	69	10	17	24	15	14	15	13	12	9	6	10	10	7	7	5	4	2	1	0	0	0
42	57	12	21	26	20	13	13	12	13	6	6	8	11	7	5	5	3	2	1	0	1	0
43	57	10	22	26	20	14	15	13	12	9	6	8	6	4	4	4	3	1	1	0	1	0
44	48	9	21	21	16	10	11	8	6	6	6	8	6	4	4	2	2	1	0	1	0	0
45	35	8	14	21	13	6	7	6	7	4	5	5	3	2	3	2	2	0	0	0	2	0
46	32	8	11	16	9	6	7	6	6	5	5	3	2	2	2	1	1	0	0	0	1	0
47	26	4	11	16	8	6	3	4	4	3	6	4	3	3	2	2	1	0	0	0	1	0
48	27	4	10	10	8	4	6	3	3	3	5	2	2	1	1	1	1	0	0	0	0	0
49	18	4	7	6	3	3	2	3	2	4	3	1	2	0	1	1	1	0	0	0	0	0
50	14	2	2	4	4	3	3	3	2	1	2	1	1	1	1	0	1	0	0	0	0	0
51	11	1	2	2	5	2	2	1	2	1	2	2	1	1	1	1	1	0	0	0	0	0
52	8	3	4	2	2	2	2	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0
53	7	1	1	5	2	1	1	2	1	1	1	1	1	1	0	0	0	0	0	0	1	0
54	4	2	2	2	2	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0
55	2	2	1	1	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
56	2	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	1	1	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
58	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	1	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
60	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0

* Rates per 100,000 reservists in the new entrant/reentrant distribution.

Enlisted Selected Reserve New Entrant Rates *

Completed Years Of Total Active Federal Military Service

Age	Under 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	9924	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	10135	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	7048	311	116	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	4171	778	773	467	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	2675	604	1223	1614	434	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	2014	378	1107	1933	1211	36	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	1620	256	812	1521	1441	228	36	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1367	196	560	1159	1132	324	170	35	4	0	0	0	0	0	0	0	0	0	0	0	0	0
26	1215	138	413	913	861	280	242	159	35	2	0	0	0	0	0	0	0	0	0	0	0	0
27	1145	99	312	688	647	220	208	214	120	26	1	0	0	0	0	0	0	0	0	0	0	0
28	1003	72	225	523	514	173	180	193	162	88	21	1	0	0	0	0	0	0	0	0	0	0
29	854	70	173	437	410	141	147	136	111	74	74	16	1	0	0	0	0	0	0	0	0	0
30	728	53	135	329	335	119	126	125	112	94	70	37	13	1	0	0	0	0	0	0	0	0
31	613	45	116	277	274	95	98	92	80	70	68	54	30	11	0	0	0	0	0	0	0	0
32	536	40	105	227	228	73	81	77	68	57	52	41	38	22	2	1	0	0	0	0	0	0
33	456	40	90	220	197	58	63	68	46	46	44	34	31	25	6	2	0	0	0	0	0	0
34	406	43	81	193	156	57	58	54	45	45	32	27	25	20	10	7	1	0	0	0	0	0
35	371	46	91	169	133	43	56	46	44	44	32	30	25	19	7	3	2	0	0	0	0	0
36	268	45	75	133	116	40	48	39	32	27	23	22	18	14	7	5	4	2	0	0	0	0
37	243	44	67	123	88	31	42	36	31	24	22	18	13	12	5	6	4	2	1	0	0	0
38	192	49	67	102	74	29	33	31	24	21	15	15	11	11	5	5	3	1	1	0	0	0
39	170	60	75	93	62	23	26	26	21	16	15	13	11	9	5	4	1	1	1	1	0	0
40	159	76	67	94	54	23	22	23	18	16	14	9	9	5	4	3	2	2	0	0	0	0
41	136	79	80	97	61	19	23	20	18	13	12	10	9	5	4	3	2	1	1	0	0	0
42	109	77	79	103	49	17	19	15	18	14	10	7	7	6	3	3	1	0	1	0	0	0
43	99	67	75	116	51	18	17	17	14	14	10	7	7	6	3	4	3	1	1	0	1	0
44	76	42	53	84	40	13	15	11	11	7	5	6	5	5	1	2	2	1	1	0	1	0
45	52	31	32	61	36	8	8	11	7	7	7	5	4	3	3	2	0	0	1	0	0	0
46	45	20	22	40	23	7	8	7	4	5	7	3	5	1	2	1	1	0	1	0	0	0
47	34	11	19	27	20	6	6	8	6	4	4	4	4	1	2	1	1	1	0	0	0	0
48	31	11	13	20	13	7	5	5	8	5	3	3	1	3	1	2	1	0	0	0	0	0
49	20	9	9	13	13	4	3	5	7	4	2	3	2	1	1	1	1	0	0	0	0	0
50	17	6	9	12	6	3	3	4	4	2	2	3	3	1	1	0	0	0	0	0	0	0
51	15	5	5	10	7	4	2	3	3	2	2	2	1	1	1	1	0	0	0	0	0	0
52	11	4	6	9	4	3	2	2	2	2	1	1	1	1	1	0	1	0	0	0	0	0
53	9	4	3	7	4	1	0	2	2	1	1	1	0	2	1	0	0	0	0	0	0	0
54	10	3	5	3	4	1	1	1	1	2	1	1	1	0	1	0	0	0	0	0	0	0
55	6	2	2	3	3	2	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0
56	2	2	3	3	2	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0
57	3	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	1	2	2	3	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0
59	1	2	0	1	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
60	1	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Rates per 100,000 reservists in the new entrant/reentrant distribution.

APPENDIX I

RETIREE AND SURVIVOR RATES

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RETIREE AND SURVIVOR RATES

The military retiree decrement rates are used to predict death, “other” losses from retired pay status, and rates of transfer from temporary disability to permanent disability. The “other” losses consist primarily of returns to active duty and full waiver of retired pay to receive a higher annuity from the Veterans Administration or Civil Service. These rates were developed by age nearest birthday for officers and enlistees separately, and were further subdivided by three types of retirement: nondisability, temporary disability, and permanent disability. For temporary disability retirees, select rates were created for each of the first five years of retirement. After five years, those who are still in the temporary disability status are transferred to a permanent disability status.

The data for the rates were taken from the Defense Manpower Data Center Retiree and Survivor Files as of September 30 for the years 1981 through 1999. These files were created by the Finance Centers of the military services (now consolidated under the Defense Finance and Accounting Service), which have responsibility for sending monthly retired pay checks to military retirees. A military retiree can be in “paid status” or “nonpaid status.” Nonpaid status indicates that a retiree has an entitlement to an annuity, but the annuity is fully reduced by offsets. Retirees who terminate from paid status during a fiscal year are on the retiree file at the end of that fiscal year with a termination code indicating the type of termination.

The rate development process began by matching two consecutive fiscal year-end files by Social Security number. Cases no longer in paid status were categorized by type of loss. In a few cases, there was no follow-up record. Some of the cases represent changed or corrected Social Security numbers. Where there was a previously retired person with a new Social Security number, it was subtracted from the cases with no follow-up record. The remaining unknowns were prorated. In addition, persons who discontinued a previous waiver of DoD retired pay were subtracted from other losses. After following the above procedures, crude rates were created using the formulas given on page I-3. These were smoothed using a Whittaker-Henderson type B graduation, or by fitting a polynomial to the crude rates. Where there was reason to suspect valid discontinuities in the underlying rates, those segments were not smoothed. A summary of the years on which various rates are based is given on page I-5.

Retired and survivor rates are shown on pages I-6 through I-17.

RETIREE AND SURVIVOR DECREMENT RATE FORMULAS

DEATH OF NONDISABILITY RETIREES (weighted by annuity amount, by age nearest birthday)

$$\frac{\text{Nondisability deaths}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Nondisability deaths} + \text{other losses})]}$$

DEATH OF PERMANENT DISABILITY RETIREES (weighted by annuity amount, by age nearest birthday)

$$\frac{\text{Permanent disability deaths}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Permanent disability deaths} + \text{other losses})]}$$

DEATH OF TEMPORARY DISABILITY RETIREES (by age nearest birthday and years retired)

$$\frac{\text{Temporary disability deaths in category}^1}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Deaths} + \text{transfers} + \text{other losses})]}$$

RATES OF OTHER LOSSES FROM NONDISABILITY (weighted by annuity amount, by age nearest birthday)

$$\frac{\text{Losses other than death}}{\text{Number at beginning of year}}$$

RATES OF OTHER LOSSES FROM PERMANENT DISABILITY (weighted by annuity amount, by age nearest birthday)

$$\frac{\text{Losses other than death}}{\text{Number at beginning of year}}$$

RATES OF OTHER LOSSES FROM TEMPORARY DISABILITY (by age nearest birthday and years retired)

$$\frac{\text{Losses other than death or transfers to permanent}}{\text{Number at beginning of year}}$$

RATES OF TRANSFER FROM TEMPORARY TO PERMANENT DISABILITY (by age nearest birthday and years retired)

$$\frac{\text{Transfers to permanent}}{\text{Number at beginning of year}}$$

¹ Includes deaths of members who were temporarily disabled at the beginning of the year, then transferred to permanent disability, and later died before the end of the year.

RETIREE AND SURVIVOR DECREMENT RATE FORMULAS
(cont.)

RETIREE DIVORCE (weighted by coverage amount, by age nearest birthday)

$$\frac{\text{Net Retiree Divorces}}{\text{Number at beginning of year}}$$

DEATH OF SURVIVING SPOUSE (weighted by annuity amount, by age nearest birthday)

$$\frac{\text{Survivor deaths}}{\text{Number at beginning of year}}$$

REMARRIAGE OF SURVIVING SPOUSE (weighted by annuity amount, by age nearest birthday)

$$\frac{\text{Surviving Spouse Remarriages}}{\text{Number at beginning of year}}$$

SURVIVING CHILD TERMINATION RATES (weighted by annuity amount, by age nearest birthday)

$$\frac{\text{Child terminations}}{\text{Number at beginning of year}}$$

SUMMARY OF YEARS ON WHICH RETIREE AND SURVIVOR RATES ARE BASED

Fiscal Years on Which Rates Are Based

<u>DEATH RATES</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>
ND Officers																X	X		
ND Enlistees																X	X		
PD Officers													X	X	X	X	X	X	X
PD Enlistees													X	X	X	X	X	X	X
TD Officers	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TD Enlistees	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<u>OTHER LOSS</u>																			
<u>RATES</u>																			
ND Officers																X	X		
ND Enlistees																X	X		
PD Officers													X	X	X	X	X	X	X
PD Enlistees													X	X	X	X	X	X	X
TD Officers	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TD Enlistees	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<u>TRANSFER</u>																			
<u>RATES FROM TD</u>																			
<u>TO PD</u>																			
Officers	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Enlistees	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<u>RETIREE</u>																X	X		
<u>DIVORCE</u>																		X	
<u>SURVIVOR</u>																			
<u>RATES</u>																			
Remarriage														X	X	X			
Child Termination													X	X	X	X			
Survivor Death														X	X	X			

ND = Nondisabled; PD = Permanently Disabled; TD = Temporarily Disabled

RETIRED DEATH RATES (BY AGE OF NEAREST BIRTHDAY)

OFFICERS

Age	Non-disability	Permanent Disability	Temporary Disability				
			Year of Retirement				
			One	Two	Three	Four	Five
16	0.00000	0.00863	0.04672	0.02778	0.02168	0.01407	0.04145
17	0.00000	0.00949	0.04546	0.02704	0.02110	0.01369	0.04033
18	0.00000	0.01014	0.04423	0.02630	0.02053	0.01332	0.03924
19	0.00000	0.01067	0.04304	0.02559	0.01997	0.01296	0.03818
20	0.00000	0.01117	0.04185	0.02489	0.01942	0.01260	0.03713
21	0.00000	0.01168	0.04070	0.02420	0.01889	0.01225	0.03610
22	0.00000	0.01225	0.03957	0.02353	0.01836	0.01191	0.03510
23	0.00000	0.01297	0.03846	0.02287	0.01785	0.01158	0.03412
24	0.00000	0.01375	0.03738	0.02223	0.01735	0.01126	0.03316
25	0.00000	0.01457	0.03633	0.02160	0.01686	0.01094	0.03222
26	0.00000	0.01535	0.03530	0.02099	0.01638	0.01063	0.03131
27	0.00000	0.01602	0.03429	0.02039	0.01591	0.01033	0.03042
28	0.00000	0.01697	0.03331	0.01981	0.01546	0.01003	0.02955
29	0.00000	0.01761	0.03237	0.01925	0.01502	0.00975	0.02872
30	0.00044	0.01794	0.03145	0.01870	0.01459	0.00947	0.02789
31	0.00045	0.01795	0.03057	0.01818	0.01419	0.00920	0.02712
32	0.00046	0.01766	0.02975	0.01769	0.01381	0.00896	0.02639
33	0.00046	0.01709	0.02900	0.01725	0.01346	0.00873	0.02573
34	0.00047	0.01631	0.03078	0.01830	0.01428	0.00927	0.02730
35	0.00048	0.01536	0.03255	0.01936	0.01511	0.00980	0.02888
36	0.00048	0.01431	0.03433	0.02042	0.01593	0.01034	0.03045
37	0.00049	0.01321	0.03612	0.02148	0.01676	0.01088	0.03204
38	0.00052	0.01210	0.03793	0.02256	0.01760	0.01142	0.03365
39	0.00055	0.01102	0.03974	0.02363	0.01844	0.01197	0.03525
40	0.00059	0.00998	0.04154	0.02471	0.01928	0.01251	0.03685
41	0.00063	0.00901	0.04333	0.02577	0.02011	0.01305	0.03843
42	0.00068	0.00816	0.04507	0.02680	0.02092	0.01357	0.03998
43	0.00073	0.00747	0.04678	0.02782	0.02171	0.01408	0.04149
44	0.00078	0.00699	0.04844	0.02880	0.02248	0.01458	0.04297
45	0.00084	0.00671	0.05008	0.02978	0.02324	0.01508	0.04442
46	0.00090	0.00665	0.05173	0.03076	0.02400	0.01557	0.04588
47	0.00099	0.00676	0.05339	0.03175	0.02477	0.01607	0.04736
48	0.00111	0.00735	0.05505	0.03274	0.02555	0.01658	0.04884
49	0.00125	0.00790	0.05673	0.03374	0.02633	0.01708	0.05032
50	0.00143	0.00841	0.05754	0.03422	0.02670	0.01733	0.05104
51	0.00163	0.00889	0.05836	0.03470	0.02708	0.01757	0.05177
52	0.00186	0.00934	0.05917	0.03519	0.02746	0.01782	0.05249
53	0.00212	0.00978	0.05996	0.03566	0.02782	0.01805	0.05319
54	0.00241	0.01022	0.06075	0.03612	0.02819	0.01829	0.05389
55	0.00274	0.01070	0.06152	0.03659	0.02855	0.01852	0.05457
56	0.00312	0.01123	0.06231	0.03705	0.02892	0.01876	0.05527
57	0.00357	0.01185	0.06311	0.03753	0.02929	0.01900	0.05598
58	0.00407	0.01258	0.06394	0.03802	0.02967	0.01925	0.05672
59	0.00465	0.01342	0.06480	0.03854	0.03007	0.01951	0.05748
60	0.00532	0.01440	0.06572	0.03908	0.03050	0.01979	0.05829
61	0.00610	0.01551	0.06671	0.03967	0.03096	0.02009	0.05917

RETIRED DEATH RATES (BY AGE OF NEAREST BIRTHDAY)

OFFICERS (continued)

Age	Non-disability	Permanent Disability	Temporary Disability				
			Year of Retirement				
			One	Two	Three	Four	Five
62	0.00700	0.01676	0.06779	0.04031	0.03146	0.02041	0.06013
63	0.00803	0.01814	0.06900	0.04103	0.03202	0.02077	0.06120
64	0.00920	0.01965	0.07034	0.04183	0.03264	0.02118	0.06240
65	0.01052	0.02129	0.07187	0.04274	0.03335	0.02164	0.06375
66	0.01197	0.02306					
67	0.01352	0.02498					
68	0.01516	0.02704					
69	0.01689	0.02922					
70	0.01876	0.03153					
71	0.02081	0.03394					
72	0.02305	0.03647					
73	0.02557	0.03915					
74	0.02838	0.04201					
75	0.03154	0.04508					
76	0.03514	0.04840					
77	0.03934	0.05201					
78	0.04414	0.05601					
79	0.04971	0.06047					
80	0.05623	0.06554					
81	0.06364	0.07137					
82	0.07196	0.07816					
83	0.08137	0.08609					
84	0.09179	0.09531					
85	0.10324	0.10596					
86	0.11581	0.11811					
87	0.12955	0.13178					
88	0.14423	0.14693					
89	0.16002	0.16353					
90	0.17681	0.18152					
91	0.19446	0.20084					
92	0.21372	0.22143					
93	0.23419	0.24325					
94	0.25591	0.26624					
95	0.27877	0.29037					
96	0.30278	0.31563					
97	0.32791	0.34200					
98	0.35415	0.36674					
99	0.38144	0.39132					
100	0.41003	0.41628					
101	0.43558	0.44222					
102	0.46274	0.46978					
103	0.49368	0.50119					
104	0.52826	0.53628					
105	0.56342	0.57196					
106	0.59574	0.60477					
107	0.62150	0.63090					
108	0.63959	0.64926					
109	0.65207	0.66192					
110	1.00000	1.00000					

RETIRED DEATH RATES (BY AGE OF NEAREST BIRTHDAY)

ENLISTED

Age	Non-disability	Permanent Disability	Temporary Disability				
			Year of Retirement				
			One	Two	Three	Four	Five
16	0.00000	0.00709	0.01619	0.01011	0.01044	0.00835	0.01115
17	0.00000	0.00780	0.01492	0.00932	0.00962	0.00770	0.01028
18	0.00000	0.00834	0.01368	0.00855	0.00882	0.00706	0.00943
19	0.00000	0.00878	0.01247	0.00779	0.00804	0.00643	0.00859
20	0.00000	0.00918	0.01197	0.00748	0.00772	0.00618	0.00825
21	0.00000	0.00960	0.01145	0.00715	0.00738	0.00591	0.00789
22	0.00000	0.01007	0.01106	0.00691	0.00713	0.00571	0.00762
23	0.00000	0.01066	0.01082	0.00676	0.00698	0.00558	0.00745
24	0.00000	0.01130	0.01084	0.00677	0.00699	0.00559	0.00747
25	0.00000	0.01198	0.01117	0.00698	0.00720	0.00577	0.00770
26	0.00000	0.01262	0.01174	0.00733	0.00757	0.00606	0.00809
27	0.00000	0.01318	0.01254	0.00783	0.00808	0.00647	0.00864
28	0.00000	0.01396	0.01352	0.00844	0.00872	0.00698	0.00931
29	0.00000	0.01448	0.01450	0.00906	0.00935	0.00748	0.00999
30	0.00060	0.01475	0.01538	0.00961	0.00992	0.00794	0.01060
31	0.00062	0.01476	0.01615	0.01009	0.01041	0.00833	0.01112
32	0.00063	0.01452	0.01684	0.01052	0.01086	0.00869	0.01161
33	0.00064	0.01405	0.01751	0.01094	0.01129	0.00904	0.01207
34	0.00064	0.01341	0.01820	0.01137	0.01173	0.00939	0.01254
35	0.00064	0.01263	0.01893	0.01182	0.01220	0.00977	0.01304
36	0.00065	0.01176	0.01975	0.01233	0.01273	0.01019	0.01360
37	0.00067	0.01086	0.02063	0.01289	0.01330	0.01065	0.01421
38	0.00071	0.00995	0.02154	0.01345	0.01389	0.01112	0.01484
39	0.00075	0.00906	0.02235	0.01396	0.01441	0.01154	0.01540
40	0.00088	0.00821	0.02316	0.01447	0.01493	0.01195	0.01595
41	0.00102	0.00741	0.02411	0.01506	0.01554	0.01244	0.01661
42	0.00118	0.00671	0.02528	0.01579	0.01630	0.01305	0.01742
43	0.00135	0.00614	0.02655	0.01658	0.01712	0.01370	0.01829
44	0.00155	0.00574	0.02768	0.01729	0.01784	0.01428	0.01907
45	0.00176	0.00552	0.02863	0.01788	0.01846	0.01478	0.01972
46	0.00199	0.00546	0.02948	0.01842	0.01901	0.01522	0.02031
47	0.00226	0.00556	0.03036	0.01897	0.01958	0.01567	0.02092
48	0.00257	0.00580	0.03131	0.01956	0.02019	0.01616	0.02157
49	0.00291	0.00619	0.03234	0.02020	0.02085	0.01669	0.02228
50	0.00330	0.00670	0.03341	0.02087	0.02154	0.01724	0.02302
51	0.00374	0.00735	0.03518	0.02198	0.02268	0.01816	0.02424
52	0.00424	0.00814	0.03697	0.02309	0.02384	0.01908	0.02547
53	0.00480	0.00908	0.03870	0.02418	0.02495	0.01998	0.02667
54	0.00541	0.01017	0.04035	0.02520	0.02601	0.02082	0.02780
55	0.00610	0.01139	0.04192	0.02619	0.02703	0.02164	0.02888
56	0.00687	0.01275	0.04351	0.02718	0.02805	0.02246	0.02998
57	0.00775	0.01421	0.04519	0.02823	0.02914	0.02333	0.03114
58	0.00873	0.01573	0.04709	0.02941	0.03036	0.02430	0.03244
59	0.00984	0.01731	0.04925	0.03076	0.03175	0.02542	0.03393
60	0.01106	0.01893	0.05166	0.03227	0.03331	0.02666	0.03559
61	0.01244	0.02058	0.05434	0.03395	0.03504	0.02805	0.03744

RETIRED DEATH RATES (BY AGE OF NEAREST BIRTHDAY)

ENLISTED (continued)

Age	Non-disability	Permanent Disability	Temporary Disability				
			Year of Retirement				
			One	Two	Three	Four	Five
62	0.01398	0.02222	0.05726	0.03577	0.03692	0.02955	0.03945
63	0.01573	0.02382	0.06033	0.03769	0.03890	0.03114	0.04157
64	0.01764	0.02544	0.06347	0.03965	0.04092	0.03276	0.04373
65	0.01976	0.02718	0.06662	0.04162	0.04295	0.03438	0.04590
66	0.02203	0.02923					
67	0.02441	0.03172					
68	0.02686	0.03466					
69	0.02940	0.03790					
70	0.03206	0.04125					
71	0.03491	0.04459					
72	0.03794	0.04787					
73	0.04119	0.05116					
74	0.04474	0.05456					
75	0.04867	0.05833					
76	0.05306	0.06270					
77	0.05794	0.06784					
78	0.06345	0.07379					
79	0.06962	0.08050					
80	0.07651	0.08789					
81	0.08414	0.09580					
82	0.09259	0.10411					
83	0.10190	0.11276					
84	0.11196	0.12174					
85	0.12280	0.13112					
86	0.13451	0.14098					
87	0.14692	0.15139					
88	0.16029	0.16238					
89	0.17449	0.17395					
90	0.18953	0.18608					
91	0.20541	0.19873					
92	0.22212	0.21187					
93	0.23968	0.22551					
94	0.25806	0.24777					
95	0.27715	0.27129					
96	0.29692	0.29533					
97	0.32121	0.31909					
98	0.34467	0.34217					
99	0.36777	0.36510					
100	0.39123	0.38839					
101	0.41561	0.41259					
102	0.44151	0.43830					
103	0.47102	0.46760					
104	0.50400	0.50034					
105	0.53754	0.53364					
106	0.56838	0.56424					
107	0.59293	0.58863					
108	0.61019	0.60576					
109	0.62209	0.61757					
110	1.00000	1.00000					

RATES OF NONDEATH LOSSES FROM NONDISABILITY

(Age Nearest Birthday at Beginning of Year)

<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>	<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>
16	0.00000	0.00000	56	0.00083	0.00447
17	0.00000	0.00000	57	0.00090	0.00502
18	0.00000	0.00000	58	0.00056	0.00485
19	0.00000	0.00000	59	0.00084	0.00577
20	0.00000	0.00000	60	0.00084	0.00508
21	0.00000	0.00000	61	0.00068	0.00490
22	0.00000	0.00000	62	0.00062	0.00410
23	0.00000	0.00000	63	0.00035	0.00352
24	0.00000	0.00000	64	0.00034	0.00331
25	0.00000	0.00000	65	0.00033	0.00314
26	0.00000	0.00000	66	0.00032	0.00281
27	0.00000	0.00000	67	0.00031	0.00256
28	0.00000	0.00000	68	0.00030	0.00240
29	0.00000	0.00000	69	0.00029	0.00228
30	0.00122	0.00426	70	0.00028	0.00215
31	0.00122	0.00426	71	0.00028	0.00194
32	0.00122	0.00426	72	0.00027	0.00173
33	0.00122	0.00426	73	0.00026	0.00162
34	0.00122	0.00426	74	0.00025	0.00158
35	0.00122	0.00426	75	0.00024	0.00160
36	0.00114	0.00396	76	0.00023	0.00159
37	0.00102	0.00357	77	0.00023	0.00157
38	0.00089	0.00310	78	0.00022	0.00157
39	0.00074	0.00258	79	0.00021	0.00162
40	0.00060	0.00207	80	0.00020	0.00168
41	0.00046	0.00165	81	0.00020	0.00167
42	0.00034	0.00134	82	0.00019	0.00164
43	0.00027	0.00115	83	0.00018	0.00160
44	0.00024	0.00106	84	0.00018	0.00152
45	0.00024	0.00105	85	0.00017	0.00140
46	0.00024	0.00110	86	0.00016	0.00130
47	0.00022	0.00118	87	0.00015	0.00123
48	0.00019	0.00128	88	0.00015	0.00118
49	0.00017	0.00138	89	0.00014	0.00113
50	0.00014	0.00149	90	0.00013	0.00109
51	0.00011	0.00160	91	0.00013	0.00104
52	0.00008	0.00169	92	0.00012	0.00099
53	0.00038	0.00201	93	0.00011	0.00095
54	0.00039	0.00284	94	0.00010	0.00090
55	0.00077	0.00491	95	0.00010	0.00085

RATES OF NONDEATH, NONTRANSFER LOSSES FROM TEMPORARY DISABILITY

(Age Nearest Birthday at Beginning of Year)

Age	OFFICERS					ENLISTED				
	Year of Retirement					Year of Retirement				
	One	Two	Three	Four	Five	One	Two	Three	Four	Five
16	0.17685	0.24762	0.24414	0.27861	0.45470	0.26948	0.54695	0.41602	0.38115	0.74683
17	0.16986	0.23916	0.23678	0.26963	0.44499	0.26024	0.50781	0.39748	0.37111	0.73306
18	0.16287	0.23069	0.22942	0.26065	0.43529	0.25073	0.46867	0.37895	0.36084	0.71929
19	0.15589	0.22223	0.22206	0.25167	0.42559	0.24094	0.42954	0.36041	0.35034	0.70553
20	0.14890	0.21376	0.21470	0.24269	0.41588	0.23088	0.39040	0.34187	0.33963	0.69176
21	0.14191	0.20529	0.20733	0.23371	0.40618	0.22054	0.35338	0.32334	0.32868	0.67799
22	0.13493	0.19683	0.19997	0.22473	0.39648	0.21059	0.31889	0.30480	0.31752	0.66422
23	0.12794	0.18836	0.19261	0.21575	0.38677	0.20151	0.28730	0.28755	0.30613	0.65045
24	0.12095	0.17990	0.18525	0.20676	0.37707	0.19207	0.26532	0.27261	0.29452	0.63668
25	0.11396	0.17143	0.17789	0.19778	0.36737	0.18273	0.24786	0.25984	0.28259	0.61826
26	0.10705	0.16297	0.17052	0.18880	0.35766	0.17385	0.23416	0.24945	0.27071	0.60400
27	0.10029	0.15513	0.16316	0.17982	0.34796	0.16628	0.22180	0.23985	0.25989	0.58856
28	0.09377	0.14772	0.15579	0.17086	0.33826	0.16023	0.21635	0.23000	0.25012	0.56467
29	0.08736	0.14087	0.14854	0.16183	0.32855	0.15555	0.21472	0.22078	0.24129	0.54153
30	0.08123	0.13563	0.14149	0.15285	0.31885	0.15190	0.21052	0.21236	0.23335	0.51736
31	0.07550	0.13014	0.13457	0.14394	0.30915	0.14966	0.20232	0.20494	0.22573	0.50401
32	0.07022	0.12624	0.12781	0.13524	0.29944	0.14803	0.19060	0.19788	0.21746	0.49662
33	0.06545	0.12119	0.12125	0.12705	0.28973	0.14619	0.18257	0.19069	0.20826	0.48510
34	0.06118	0.11525	0.11478	0.11955	0.28000	0.14372	0.17893	0.18286	0.19806	0.47263
35	0.05740	0.10725	0.10824	0.11273	0.27026	0.14014	0.17631	0.17472	0.18706	0.46077
36	0.05384	0.09823	0.10154	0.10652	0.26052	0.13527	0.17017	0.16516	0.17542	0.44969
37	0.05034	0.08791	0.09462	0.10066	0.25078	0.12900	0.15587	0.15234	0.16310	0.43776
38	0.04686	0.07729	0.08743	0.09483	0.24107	0.12116	0.13361	0.13601	0.15006	0.41957
39	0.04337	0.06728	0.07999	0.08905	0.23139	0.11239	0.10614	0.11691	0.13615	0.39268
40	0.03981	0.05859	0.07236	0.08326	0.22174	0.10376	0.07857	0.09743	0.12185	0.35601
41	0.03621	0.05196	0.06463	0.07734	0.21215	0.09619	0.05962	0.08018	0.10773	0.31194
42	0.03262	0.04618	0.05699	0.07126	0.20263	0.08980	0.04921	0.06653	0.09453	0.26349
43	0.02906	0.04180	0.04967	0.06504	0.19320	0.08440	0.04440	0.05613	0.08259	0.22141
44	0.02552	0.03717	0.04279	0.05877	0.18385	0.07940	0.04269	0.04840	0.07197	0.19438
45	0.02207	0.03168	0.03648	0.05246	0.17461	0.07472	0.04273	0.04274	0.06267	0.18270
46	0.01886	0.02586	0.03079	0.04619	0.16547	0.07040	0.04279	0.03861	0.05434	0.18079
47	0.01601	0.01965	0.02582	0.04015	0.15643	0.06640	0.04191	0.03597	0.04697	0.17593
48	0.01359	0.01381	0.02154	0.03451	0.14749	0.06261	0.03998	0.03460	0.04059	0.16712
49	0.01164	0.00899	0.01794	0.02941	0.13863	0.05916	0.03771	0.03430	0.03517	0.15520
50	0.01017	0.00546	0.01495	0.02498	0.12986	0.05637	0.03679	0.03451	0.03072	0.14401
51	0.00914	0.00298	0.01251	0.02128	0.12118	0.05430	0.03716	0.03496	0.02715	0.13607
52	0.00846	0.00176	0.01051	0.01826	0.11257	0.05276	0.03903	0.03563	0.02441	0.13277
53	0.00807	0.00131	0.00886	0.01583	0.10402	0.05154	0.04192	0.03636	0.02241	0.13415
54	0.00787	0.00143	0.00750	0.01390	0.09553	0.05062	0.04504	0.03692	0.02106	0.13819
55	0.00778	0.00165	0.00637	0.01238	0.08710	0.04994	0.04717	0.03719	0.02029	0.14332
56	0.00777	0.00191	0.00542	0.01129	0.07870	0.04932	0.04817	0.03722	0.02000	0.14775
57	0.00781	0.00202	0.00464	0.01060	0.07036	0.04865	0.04799	0.03706	0.02006	0.15127
58	0.00788	0.00192	0.00400	0.01026	0.06204	0.04784	0.04682	0.03693	0.02035	0.15270
59	0.00793	0.00164	0.00351	0.01023	0.05375	0.04695	0.04485	0.03697	0.02082	0.15087
60	0.00796	0.00115	0.00312	0.01042	0.04548	0.04602	0.04221	0.03724	0.02140	0.14544
61	0.00797	0.00048	0.00282	0.01074	0.03722	0.04508	0.03875	0.03773	0.02206	0.13806
62	0.00797	0.00000	0.00257	0.01109	0.02897	0.04417	0.03485	0.03838	0.02280	0.13012
63	0.00798	0.00000	0.00235	0.01143	0.02073	0.04328	0.03077	0.03916	0.02360	0.12217
64	0.00798	0.00000	0.00213	0.01176	0.01249	0.04236	0.02663	0.04001	0.02444	0.11423
65	0.00798	0.00000	0.00191	0.01210	0.00425	0.04145	0.02246	0.04086	0.02527	0.10629

TRANSFER RATES FROM TEMPORARY DISABILITY TO PERMANENT DISABILITY

(Age Nearest Birthday at Beginning of Year)

Age	OFFICERS				ENLISTED			
	Year of Retirement				Year of Retirement			
	One	Two	Three	Four	One	Two	Three	Four
16	0.05312	0.06331	0.12999	0.10350	0.00128	0.03993	0.02009	0.00000
17	0.05548	0.07171	0.13345	0.11410	0.00696	0.05348	0.02912	0.00210
18	0.05784	0.08011	0.13692	0.12470	0.01264	0.06703	0.03815	0.02277
19	0.06019	0.08850	0.14039	0.13530	0.01832	0.08058	0.04718	0.04343
20	0.06255	0.09690	0.14385	0.14589	0.02401	0.09413	0.05622	0.06410
21	0.06491	0.10529	0.14732	0.15649	0.02969	0.10768	0.06525	0.08476
22	0.06727	0.11369	0.15079	0.16709	0.03532	0.12018	0.07428	0.10543
23	0.06963	0.12208	0.15426	0.17769	0.04083	0.13061	0.08322	0.12609
24	0.07198	0.13048	0.15772	0.18828	0.04620	0.13826	0.09194	0.14667
25	0.07434	0.13888	0.16119	0.19888	0.05141	0.14402	0.10052	0.16643
26	0.07670	0.14738	0.16466	0.20948	0.05650	0.14876	0.10888	0.18391
27	0.07906	0.15598	0.16813	0.22008	0.06149	0.15329	0.11672	0.19669
28	0.08141	0.16468	0.17160	0.23067	0.06637	0.15810	0.12419	0.20594
29	0.08377	0.17348	0.17522	0.24125	0.07115	0.16347	0.13159	0.21303
30	0.08613	0.18240	0.17932	0.25182	0.07579	0.16965	0.13908	0.21812
31	0.08849	0.19146	0.18417	0.26234	0.08028	0.17622	0.14672	0.22214
32	0.09085	0.20070	0.19003	0.27281	0.08459	0.18383	0.15489	0.22711
33	0.09320	0.21014	0.19718	0.28319	0.08871	0.19275	0.16369	0.23397
34	0.09556	0.21980	0.20588	0.29342	0.09260	0.20347	0.17337	0.24277
35	0.09792	0.22967	0.21604	0.30347	0.09623	0.21671	0.18391	0.25257
36	0.10028	0.23968	0.22720	0.31328	0.09957	0.23247	0.19513	0.26298
37	0.10263	0.24976	0.23875	0.32281	0.10259	0.25095	0.20689	0.27416
38	0.10499	0.25977	0.25012	0.33197	0.10525	0.27147	0.21907	0.28558
39	0.10735	0.26955	0.26096	0.34068	0.10760	0.29231	0.23154	0.29749
40	0.10971	0.27893	0.27091	0.34888	0.10970	0.31207	0.24390	0.30924
41	0.11207	0.28774	0.28005	0.35652	0.11158	0.32849	0.25571	0.32025
42	0.11442	0.29582	0.28822	0.36353	0.11324	0.34074	0.26655	0.32970
43	0.11678	0.30305	0.29517	0.36985	0.11471	0.34896	0.27607	0.33742
44	0.11914	0.30933	0.30066	0.37545	0.11599	0.35342	0.28409	0.34340
45	0.12150	0.31462	0.30484	0.38036	0.11708	0.35550	0.29025	0.34822
46	0.12385	0.31888	0.30771	0.38465	0.11797	0.35648	0.29459	0.35309
47	0.12621	0.32211	0.30905	0.38835	0.11866	0.35725	0.29715	0.35825
48	0.12857	0.32436	0.30885	0.39156	0.11913	0.35822	0.29798	0.36367
49	0.13093	0.32567	0.30723	0.39436	0.11935	0.35904	0.29709	0.36986
50	0.13329	0.32614	0.30470	0.39678	0.11935	0.35954	0.29468	0.37641
51	0.13564	0.32585	0.30154	0.39884	0.11912	0.35964	0.29092	0.38268
52	0.13800	0.32491	0.29815	0.40060	0.11870	0.35918	0.28605	0.38817
53	0.14036	0.32340	0.29514	0.40209	0.11814	0.35769	0.28019	0.39222
54	0.14272	0.32143	0.29302	0.40337	0.11748	0.35480	0.27350	0.39502
55	0.14507	0.31909	0.29222	0.40447	0.11674	0.35018	0.26612	0.39704
56	0.14743	0.31646	0.29306	0.40545	0.11593	0.34390	0.25819	0.39888
57	0.14979	0.31363	0.29557	0.40636	0.11508	0.33639	0.24986	0.40058
58	0.15215	0.31066	0.29948	0.40721	0.11419	0.32805	0.24121	0.40200
59	0.15450	0.30762	0.30461	0.40804	0.11328	0.31923	0.23227	0.40302
60	0.15686	0.30454	0.31057	0.40887	0.11235	0.31021	0.22316	0.40363
61	0.15922	0.30146	0.31702	0.40971	0.11140	0.30122	0.21394	0.40379
62	0.16158	0.29840	0.32379	0.41056	0.11044	0.29222	0.20468	0.40342
63	0.16394	0.29536	0.33077	0.41140	0.10947	0.28316	0.19538	0.40256
64	0.16629	0.29234	0.33782	0.41223	0.10850	0.27402	0.18607	0.40139
65	0.16865	0.28932	0.34490	0.41306	0.10752	0.26484	0.17675	0.40014

RATES OF NONDEATH LOSSES FROM PERMANENT DISABILITY

(Age Nearest Birthday at Beginning of Year)

<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>	<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>
16	0.03892	0.38092	54	0.00350	0.01748
17	0.03777	0.35441	55	0.00321	0.01727
18	0.03661	0.32794	56	0.00295	0.01711
19	0.03546	0.30151	57	0.00272	0.01677
20	0.03431	0.27511	58	0.00252	0.01695
21	0.03316	0.24875	59	0.00234	0.01761
22	0.03200	0.22242	60	0.00218	0.01691
23	0.03085	0.19613	61	0.00205	0.01626
24	0.02970	0.16988	62	0.00193	0.01515
25	0.02855	0.14474	63	0.00183	0.01383
26	0.02740	0.12174	64	0.00174	0.01312
27	0.02625	0.10195	65	0.00166	0.01228
28	0.02510	0.08580	66	0.00160	0.01198
29	0.02395	0.07343	67	0.00155	0.01160
30	0.02281	0.06445	68	0.00151	0.01079
31	0.02166	0.05773	69	0.00147	0.01068
32	0.02053	0.05260	70	0.00144	0.01106
33	0.01940	0.04839	71	0.00142	0.01061
34	0.01829	0.04451	72	0.00141	0.01043
35	0.01720	0.04151	73	0.00140	0.00940
36	0.01613	0.03951	74	0.00139	0.00865
37	0.01509	0.03795	75	0.00138	0.00817
38	0.01408	0.03608	76	0.00138	0.00838
39	0.01310	0.03407	77	0.00138	0.00859
40	0.01215	0.03120	78	0.00138	0.00852
41	0.01124	0.02831	79	0.00138	0.00832
42	0.01037	0.02562	80	0.00138	0.00772
43	0.00955	0.02376	81	0.00138	0.00781
44	0.00877	0.02201	82	0.00138	0.00793
45	0.00803	0.02021	83	0.00138	0.00824
46	0.00734	0.01884	84	0.00138	0.00844
47	0.00670	0.01862	85	0.00138	0.00836
48	0.00611	0.01871	86	0.00137	0.00794
49	0.00556	0.01837	87	0.00137	0.00723
50	0.00507	0.01839	88	0.00136	0.00619
51	0.00461	0.01833	89	0.00136	0.00509
52	0.00420	0.01788	90	0.00135	0.00391
53	0.00383	0.01760			

RATES OF DIVORCE

(Age Nearest Birthday)

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
16	0.0600	47	0.0131	78	0.0000
17	0.0585	48	0.0112	79	0.0000
18	0.0571	49	0.0098	80	0.0000
19	0.0556	50	0.0082	81	0.0000
20	0.0541	51	0.0069	82	0.0000
21	0.0526	52	0.0057		
22	0.0511	53	0.0047		
23	0.0493	54	0.0039		
24	0.0471	55	0.0032		
25	0.0447	56	0.0027		
26	0.0421	57	0.0019		
27	0.0396	58	0.0012		
28	0.0375	59	0.0009		
29	0.0362	60	0.0014		
30	0.0360	61	0.0000		
31	0.0368	62	0.0000		
32	0.0384	63	0.0000		
33	0.0406	64	0.0000		
34	0.0428	65	0.0000		
35	0.0444	66	0.0000		
36	0.0450	67	0.0000		
37	0.0448	68	0.0000		
38	0.0437	69	0.0000		
39	0.0411	70	0.0000		
40	0.0363	71	0.0000		
41	0.0309	72	0.0000		
42	0.0289	73	0.0000		
43	0.0245	74	0.0000		
44	0.0207	75	0.0000		
45	0.0176	76	0.0000		
46	0.0151	77	0.0000		

RATES OF REMARRIAGE

(Age Nearest Birthday)

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
16	0.0436	38	0.0192
17	0.0426	39	0.0185
18	0.0417	40	0.0175
19	0.0407	41	0.0162
20	0.0398	42	0.0146
21	0.0382	43	0.0129
22	0.0367	44	0.0114
23	0.0352	45	0.0103
24	0.0338	46	0.0095
25	0.0324	47	0.0088
26	0.0301	48	0.0082
27	0.0279	49	0.0076
28	0.0259	50	0.0071
29	0.0240	51	0.0064
30	0.0223	52	0.0056
31	0.0219	53	0.0043
32	0.0216	54	0.0017
33	0.0211	55	0.0005
34	0.0207	56	0.0000
35	0.0204	57	0.0000
36	0.0200	58	0.0000
37	0.0196	59	0.0000

CHILD TERMINATION RATES

(Age Nearest Birthday)

Age	Rate
0	0.00
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.17
18	0.13
19	0.14
20	0.15
21	0.61
22	0.67
23	0.01

SURVIVOR DEATH RATES

(Age Nearest Birthday)

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
0	0.00601	55	0.00522
1	0.00045	56	0.00565
2	0.00035	57	0.00601
3	0.00027	58	0.00633
4	0.00022	59	0.00669
5	0.00019	60	0.00714
6	0.00015	61	0.00777
7	0.00014	62	0.00860
8	0.00012	63	0.00968
9	0.00011	64	0.01094
10	0.00009	65	0.01230
11	0.00010	66	0.01366
12	0.00012	67	0.01493
13	0.00016	68	0.01601
14	0.00022	69	0.01689
15	0.00028	70	0.01766
16	0.00033	71	0.01847
17	0.00038	72	0.01948
18	0.00039	73	0.02075
19	0.00038	74	0.02233
20	0.00038	75	0.02424
21	0.00037	76	0.02651
22	0.00037	77	0.02918
23	0.00039	78	0.03229
24	0.00038	79	0.03592
25	0.00039	80	0.04010
26	0.00040	81	0.04477
27	0.00046	82	0.04990
28	0.00049	83	0.05542
29	0.00054	84	0.06131
30	0.00056	85	0.06758
31	0.00061	86	0.07436
32	0.00065	87	0.08178
33	0.00067	88	0.08997
34	0.00073	89	0.09920
35	0.00078	90	0.10963
36	0.00084	91	0.12144
37	0.00088	92	0.13485
38	0.00093	93	0.15014
39	0.00096	94	0.16743
40	0.00102	95	0.18673
41	0.00108	96	0.20817
42	0.00116	97	0.23171
43	0.00127	98	0.25733
44	0.00140	99	0.28496
45	0.00154	100	0.30684
46	0.00171	101	0.32925
47	0.00187	102	0.35196
48	0.00204	103	0.37617
49	0.00222	104	0.40259
50	0.00243	105	0.42858
51	0.00265	106	0.45149
52	0.00307	107	0.47100
53	0.00396	108	0.48576
54	0.00467	109	0.49666

APPENDIX J

MORTALITY IMPROVEMENT FACTORS

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Survivor.....	J-9

MORTALITY IMPROVEMENT FACTORS

Mortality rates in the valuation for active (non-reserve) military, nondisabled retirees, and survivor beneficiaries are decreased (or “improved”) over time in order to reflect the long-term trend toward such declines. No mortality improvement is assumed for disabled retirees because their mortality patterns are too easily affected by economic variables, periods of war, and by the policies of administering the disability retirement program (i.e., periods of relative laxity or stringency in determining an individual’s degree of disability or recovery from disability).

Mortality improvement factors were formed using data from the Social Security Administration. The Office of the Actuary, Social Security Administration, projects mortality rates by age and sex for each quinquennial year of their valuation projection period through the year 2080. We used the rates which underlie the 2000 Trustee’s Report, Alternative II (II-A and II-B had identical mortality assumptions).

To construct military mortality improvement factors, the corresponding combined sex tables were constructed. Mortality improvement factors were then computed by taking the fifth root of the ratio between (1) the combined sex mortality rate for a given age and year and (2) combined sex mortality rate for the same age five years earlier. Five sets of values for the percent of females were used: active duty officers, active duty enlistees, nondisabled retired officers, nondisabled retired enlistees, and survivors. For each set, the percent of females was both age- and year-specific, with the initial percent taken from the September 1999 military files. There are consequently five sets of mortality improvement factors used in the valuation of the military retirement system.

Even though the mortality improvement factors are based on Social Security data, they should apply reasonably well to the military retirement system. While the average military person may be somewhat healthier than the average person in the social security population, the mortality improvement factors are in the form of percentages. If the mortality for relatively healthy military lives is already small, then the improvement in terms of fewer deaths is slight, even though the percentage improvement is the same as for relatively less healthy lives.

Active Officer Mortality Improvement Rates

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.96007	1.04534	0.96223	0.99444	0.98901	0.98908	0.99008	0.99127	0.99191	0.99199	0.99210	0.99204	0.99228	0.99207	0.99205	0.99246	0.99184	0.99264	0.99223	0.99205
17	0.95817	1.04580	0.96158	0.99454	0.98899	0.98913	0.99028	0.99118	0.99214	0.99211	0.99200	0.99222	0.99246	0.99208	0.99237	0.99243	0.99223	0.99240	0.99250	0.99221
18	0.95678	1.04242	0.96201	0.99452	0.98829	0.98850	0.99001	0.99113	0.99223	0.99191	0.99205	0.99222	0.99257	0.99205	0.99252	0.99241	0.99193	0.99258	0.99247	0.99228
19	0.95580	1.03656	0.96346	0.99428	0.98730	0.98750	0.98918	0.99108	0.99206	0.99192	0.99210	0.99219	0.99230	0.99214	0.99235	0.99246	0.99207	0.99261	0.99223	0.99239
20	0.95474	1.02270	0.97264	0.99404	0.98618	0.98658	0.98837	0.99082	0.99203	0.99200	0.99179	0.99231	0.99214	0.99225	0.99216	0.99246	0.99243	0.99230	0.99263	0.99263
21	0.95439	0.99652	0.99555	0.99389	0.98523	0.98585	0.98779	0.99083	0.99176	0.99199	0.99196	0.99214	0.99209	0.99210	0.99228	0.99228	0.99235	0.99230	0.99231	0.99262
22	0.95504	1.00351	0.98723	0.99355	0.98474	0.98538	0.98755	0.99064	0.99158	0.99214	0.99193	0.99229	0.99185	0.99204	0.99242	0.99220	0.99226	0.99243	0.99221	0.99250
23	0.95680	1.00365	0.99057	0.99304	0.98463	0.98554	0.98743	0.99062	0.99174	0.99192	0.99195	0.99228	0.99177	0.99225	0.99221	0.99218	0.99227	0.99233	0.99246	0.99250
24	0.95953	1.00919	0.98909	0.99236	0.98505	0.98595	0.98754	0.99084	0.99143	0.99217	0.99181	0.99214	0.99207	0.99211	0.99234	0.99226	0.99219	0.99217	0.99237	0.99266
25	0.96250	1.01446	0.98604	0.99156	0.98522	0.98636	0.98789	0.99060	0.99154	0.99195	0.99200	0.99212	0.99205	0.99215	0.99211	0.99231	0.99219	0.99249	0.99241	0.99244
26	0.96569	1.01619	0.98533	0.99090	0.98544	0.98669	0.98798	0.99073	0.99152	0.99195	0.99205	0.99193	0.99206	0.99222	0.99214	0.99235	0.99209	0.99250	0.99232	0.99252
27	0.97034	1.01882	0.98665	0.99085	0.98576	0.98727	0.98824	0.99074	0.99153	0.99192	0.99202	0.99189	0.99202	0.99241	0.99192	0.99235	0.99205	0.99250	0.99253	0.99253
28	0.97637	1.02067	0.99039	0.99176	0.98601	0.98797	0.98884	0.99098	0.99157	0.99176	0.99202	0.99193	0.99222	0.99216	0.99192	0.99249	0.99204	0.99268	0.99250	0.99243
29	0.98316	1.02426	0.99396	0.99322	0.98650	0.98855	0.98947	0.99122	0.99161	0.99178	0.99183	0.99209	0.99217	0.99213	0.99228	0.99219	0.99234	0.99257	0.99258	0.99255
30	0.99030	1.02675	1.00141	0.99466	0.98677	0.98921	0.99015	0.99119	0.99169	0.99189	0.99187	0.99196	0.99222	0.99213	0.99226	0.99237	0.99233	0.99252	0.99267	0.99247
31	0.99651	1.02645	1.00653	0.99595	0.98692	0.98978	0.99058	0.99131	0.99176	0.99178	0.99178	0.99198	0.99240	0.99191	0.99245	0.99212	0.99268	0.99243	0.99282	0.99259
32	1.00040	1.02587	1.01184	0.99716	0.98681	0.98990	0.99066	0.99138	0.99170	0.99164	0.99194	0.99199	0.99223	0.99207	0.99236	0.99228	0.99258	0.99253	0.99246	0.99288
33	1.00151	1.02981	1.00997	0.99834	0.98644	0.98946	0.99055	0.99113	0.99168	0.99164	0.99176	0.99194	0.99229	0.99198	0.99225	0.99231	0.99262	0.99257	0.99249	0.99270
34	1.00043	1.03148	1.01052	0.99927	0.98569	0.98882	0.98996	0.99114	0.99136	0.99173	0.99172	0.99201	0.99204	0.99204	0.99229	0.99235	0.99245	0.99258	0.99270	0.99270
35	0.99849	1.03441	1.00877	1.00009	0.98507	0.98795	0.98941	0.99090	0.99123	0.99156	0.99169	0.99181	0.99192	0.99212	0.99216	0.99240	0.99231	0.99260	0.99251	0.99290
36	0.99665	1.03435	1.00679	1.00058	0.98422	0.98713	0.98899	0.99064	0.99119	0.99136	0.99172	0.99167	0.99193	0.99196	0.99211	0.99231	0.99241	0.99269	0.99241	0.99276
37	0.99441	1.03136	1.00625	1.00077	0.98359	0.98650	0.98841	0.99038	0.99112	0.99137	0.99157	0.99163	0.99186	0.99200	0.99201	0.99234	0.99240	0.99250	0.99256	0.99271
38	0.99207	1.02621	1.00924	1.00052	0.98305	0.98590	0.98802	0.99027	0.99105	0.99126	0.99141	0.99158	0.99175	0.99202	0.99198	0.99228	0.99233	0.99257	0.99245	0.99292
39	0.98963	1.01902	1.01129	0.99994	0.98256	0.98534	0.98778	0.99006	0.99096	0.99123	0.99135	0.99158	0.99165	0.99194	0.99194	0.99232	0.99233	0.99255	0.99259	0.99268
40	0.98726	1.01193	1.01560	0.99912	0.98228	0.98487	0.98752	0.99005	0.99088	0.99110	0.99138	0.99158	0.99171	0.99188	0.99196	0.99229	0.99229	0.99262	0.99262	0.99271
41	0.98494	1.00620	1.01690	0.99814	0.98190	0.98445	0.98724	0.98991	0.99092	0.99103	0.99134	0.99149	0.99173	0.99183	0.99203	0.99229	0.99228	0.99259	0.99267	0.99275
42	0.98268	1.00137	1.01581	0.99702	0.98138	0.98392	0.98685	0.98971	0.99068	0.99090	0.99127	0.99139	0.99167	0.99175	0.99202	0.99216	0.99234	0.99269	0.99269	0.99273
43	0.98045	0.99815	1.01315	0.99582	0.98071	0.98313	0.98622	0.98939	0.99051	0.99068	0.99107	0.99124	0.99149	0.99162	0.99187	0.99206	0.99222	0.99234	0.99264	0.99253
44	0.97649	0.99575	1.00912	0.99457	0.98001	0.98235	0.98557	0.98894	0.99027	0.99055	0.99079	0.99101	0.99130	0.99140	0.99179	0.99186	0.99210	0.99228	0.99245	0.99256
45	0.97695	0.99427	1.00420	0.99337	0.97940	0.98167	0.98494	0.98857	0.99003	0.99026	0.99059	0.99086	0.99101	0.99132	0.99158	0.99173	0.99191	0.99217	0.99241	0.99241
46	0.97591	0.99267	1.00093	0.99219	0.97904	0.98122	0.98455	0.98836	0.98980	0.99020	0.99038	0.99075	0.99094	0.99121	0.99149	0.99162	0.99186	0.99218	0.99229	0.99249
47	0.97526	0.99024	0.99849	0.99061	0.97891	0.98098	0.98441	0.98835	0.98976	0.99016	0.99045	0.99076	0.99091	0.99121	0.99146	0.99173	0.99193	0.99211	0.99232	0.99256
48	0.97499	0.98713	0.99756	0.98874	0.97912	0.98110	0.98446	0.98850	0.98991	0.99037	0.99063	0.99084	0.99115	0.99136	0.99165	0.99179	0.99206	0.99229	0.99246	0.99268
49	0.97500	0.98395	0.99701	0.98674	0.97948	0.98133	0.98479	0.98877	0.99020	0.99062	0.99084	0.99114	0.99136	0.99161	0.99185	0.99205	0.99228	0.99240	0.99263	0.99289
50	0.97507	0.98125	0.99620	0.98500	0.97994	0.98172	0.98520	0.98902	0.99045	0.99088	0.99119	0.99133	0.99163	0.99186	0.99199	0.99229	0.99243	0.99267	0.99279	0.99301
51	0.97551	0.97884	0.99495	0.98365	0.98039	0.98210	0.98550	0.98927	0.99065	0.99112	0.99134	0.99155	0.99175	0.99206	0.99217	0.99243	0.99260	0.99273	0.99290	0.99316
52	0.97669	0.97861	0.99103	0.98262	0.98082	0.98245	0.98585	0.98953	0.99081	0.99125	0.99148	0.99166	0.99191	0.99218	0.99226	0.99253	0.99274	0.99290	0.99298	0.99325
53	0.97864	0.97913	0.98808	0.98184	0.98119	0.98279	0.98615	0.98970	0.99092	0.99133	0.99160	0.99174	0.99200	0.99222	0.99237	0.99261	0.99278	0.99296	0.99312	0.99331
54	0.98070	0.97671	0.98561	0.98131	0.98157	0.98319	0.98646	0.98988	0.99101	0.99136	0.99162	0.99183	0.99205	0.99223	0.99243	0.99267	0.99285	0.99300	0.99314	0.99340
55	0.98264	0.97626	0.98280	0.98099	0.98207	0.98364	0.98684	0.99007	0.99113	0.99142	0.99165	0.99190	0.99211	0.99229	0.99249	0.99272	0.99288	0.99308	0.99323	0.99340
56	0.98417	0.97616	0.98083	0.98090	0.98264	0.98419	0.98725	0.99029	0.99118	0.99153	0.99169	0.99192	0.99219	0.99239	0.99252	0.99279	0.99294	0.99315	0.99327	0.99345
57	0.98541	0.97646	0.97982	0.98109	0.98313	0.98469	0.98760	0.99044	0.99125	0.99154	0.99171	0.99198	0.99222	0.99238	0.99257	0.99279	0.99298	0.99318	0.99331	0.99345
58	0.98633	0.97717	0.97979	0.98153	0.98356	0.98507	0.98791	0.99050	0.99127	0.99152	0.99171	0.99198	0.99220	0.99240	0.99258	0.99279	0.99296	0.99319	0.99332	0.99347
59	0.98701	0.97812	0.98034	0.98215	0.98398	0.98546	0.98819	0.99057	0.99125	0.99148	0.99172	0.99195	0.99220	0.99238	0.99257	0.99279	0.99299	0.99318	0.99330	0.99348
60	0.98783	0.97876	0.98095	0.98264	0.98434	0.98579	0.98843	0.99062	0.99119	0.99147	0.99169	0.99194	0.99215	0.99239	0.99258	0.99278	0.99296	0.99317	0.99332	0.99349

Active Enlisted Mortality Improvement Rates

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.95965	1.02478	0.97747	0.99437	0.98902	0.98908	0.99009	0.99127	0.99192	0.99198	0.99210	0.99204	0.99227	0.99207	0.99205	0.99246	0.99184	0.99264	0.99223	0.99205
17	0.95774	1.02456	0.97731	0.99448	0.98899	0.98913	0.99029	0.99119	0.99214	0.99211	0.99201	0.99222	0.99247	0.99208	0.99237	0.99243	0.99223	0.99239	0.99250	0.99221
18	0.95638	1.02054	0.97822	0.99448	0.98826	0.98846	0.98996	0.99107	0.99222	0.99191	0.99204	0.99221	0.99258	0.99205	0.99253	0.99237	0.99193	0.99256	0.99249	0.99227
19	0.95546	1.01370	0.98258	0.99425	0.98729	0.98748	0.98913	0.99104	0.99203	0.99189	0.99213	0.99215	0.99228	0.99215	0.99236	0.99241	0.99206	0.99259	0.99225	0.99235
20	0.95447	1.00748	0.98746	0.99406	0.98621	0.98658	0.98835	0.99081	0.99199	0.99200	0.99183	0.99226	0.99212	0.99225	0.99217	0.99243	0.99208	0.99238	0.99230	0.99261
21	0.95415	1.00362	0.99021	0.99397	0.98528	0.98590	0.98781	0.99083	0.99174	0.99197	0.99198	0.99212	0.99205	0.99211	0.99228	0.99225	0.99237	0.99221	0.99232	0.99261
22	0.95486	1.00202	0.99222	0.99366	0.98481	0.98545	0.98758	0.99066	0.99156	0.99212	0.99195	0.99228	0.99180	0.99205	0.99243	0.99217	0.99228	0.99236	0.99222	0.99249
23	0.95667	1.00361	0.99181	0.99308	0.98465	0.98557	0.98743	0.99063	0.99173	0.99191	0.99195	0.99228	0.99176	0.99226	0.99221	0.99217	0.99228	0.99231	0.99247	0.99249
24	0.95938	1.00789	0.98905	0.99235	0.98507	0.98597	0.98754	0.99084	0.99142	0.99217	0.99181	0.99213	0.99206	0.99212	0.99233	0.99225	0.99218	0.99216	0.99237	0.99266
25	0.96237	1.01326	0.98521	0.99153	0.98523	0.98636	0.98789	0.99060	0.99154	0.99195	0.99200	0.99211	0.99204	0.99215	0.99210	0.99230	0.99219	0.99249	0.99241	0.99244
26	0.96562	1.01747	0.98403	0.99084	0.98544	0.98669	0.98797	0.99073	0.99152	0.99195	0.99205	0.99193	0.99206	0.99222	0.99214	0.99235	0.99209	0.99250	0.99231	0.99252
27	0.97033	1.02141	0.98495	0.99080	0.98576	0.98727	0.98824	0.99074	0.99153	0.99192	0.99202	0.99189	0.99202	0.99241	0.99191	0.99234	0.99204	0.99250	0.99253	0.99252
28	0.97637	1.02304	0.98987	0.99168	0.98602	0.98797	0.98885	0.99098	0.99157	0.99176	0.99202	0.99193	0.99222	0.99216	0.99192	0.99249	0.99203	0.99268	0.99249	0.99243
29	0.98316	1.02452	0.99631	0.99312	0.98650	0.98856	0.98948	0.99122	0.99161	0.99178	0.99183	0.99209	0.99217	0.99213	0.99227	0.99219	0.99234	0.99257	0.99257	0.99255
30	0.99033	1.02482	1.00301	0.99453	0.98678	0.98921	0.99015	0.99119	0.99169	0.99189	0.99188	0.99195	0.99222	0.99213	0.99226	0.99237	0.99233	0.99252	0.99267	0.99247
31	0.99656	1.02487	1.00879	0.99583	0.98692	0.98979	0.99058	0.99131	0.99176	0.99178	0.99178	0.99198	0.99240	0.99191	0.99244	0.99212	0.99268	0.99243	0.99282	0.99258
32	1.00051	1.02726	1.01055	0.99704	0.98683	0.98992	0.99067	0.99138	0.99169	0.99164	0.99194	0.99199	0.99223	0.99207	0.99236	0.99228	0.99258	0.99253	0.99246	0.99288
33	1.00165	1.02964	1.01085	0.99819	0.98647	0.98950	0.99057	0.99113	0.99168	0.99164	0.99176	0.99193	0.99229	0.99198	0.99224	0.99231	0.99262	0.99256	0.99249	0.99270
34	1.00064	1.03171	1.00929	0.99919	0.98572	0.98887	0.98998	0.99114	0.99136	0.99173	0.99171	0.99186	0.99201	0.99204	0.99229	0.99234	0.99245	0.99257	0.99270	0.99269
35	0.99881	1.03330	1.00747	1.00002	0.98511	0.98799	0.98944	0.99091	0.99123	0.99156	0.99168	0.99180	0.99192	0.99212	0.99216	0.99239	0.99230	0.99259	0.99251	0.99289
36	0.99694	1.03440	1.00467	1.00053	0.98426	0.98718	0.98902	0.99065	0.99118	0.99135	0.99171	0.99166	0.99193	0.99194	0.99210	0.99231	0.99240	0.99268	0.99240	0.99275
37	0.99473	1.03234	1.00538	1.00069	0.98364	0.98656	0.98844	0.99038	0.99111	0.99136	0.99156	0.99162	0.99185	0.99199	0.99199	0.99233	0.99239	0.99248	0.99256	0.99269
38	0.99236	1.02762	1.00719	1.00049	0.98309	0.98596	0.98805	0.99027	0.99104	0.99125	0.99140	0.99157	0.99174	0.99201	0.99197	0.99228	0.99232	0.99256	0.99244	0.99291
39	0.98990	1.02043	1.01079	0.99993	0.98260	0.98538	0.98781	0.99006	0.99095	0.99123	0.99134	0.99158	0.99164	0.99194	0.99193	0.99231	0.99233	0.99254	0.99258	0.99267
40	0.98746	1.01309	1.01471	0.99913	0.98230	0.98490	0.98753	0.99005	0.99087	0.99109	0.99138	0.99157	0.99171	0.99188	0.99195	0.99228	0.99229	0.99262	0.99261	0.99270
41	0.98507	1.00748	1.01677	0.99816	0.98195	0.98450	0.98727	0.98991	0.99091	0.99101	0.99133	0.99148	0.99171	0.99182	0.99201	0.99229	0.99227	0.99257	0.99267	0.99273
42	0.98276	1.00181	1.01715	0.99706	0.98139	0.98393	0.98686	0.98971	0.99068	0.99090	0.99126	0.99139	0.99167	0.99175	0.99202	0.99216	0.99234	0.99234	0.99269	0.99272
43	0.98049	0.99873	1.01421	0.99586	0.98073	0.98316	0.98624	0.98938	0.99050	0.99067	0.99106	0.99124	0.99148	0.99161	0.99186	0.99205	0.99222	0.99233	0.99263	0.99252
44	0.97852	0.99581	1.00934	0.99460	0.98002	0.98236	0.98557	0.98894	0.99026	0.99054	0.99078	0.99100	0.99129	0.99140	0.99178	0.99185	0.99209	0.99228	0.99244	0.99255
45	0.97687	0.99371	1.00440	0.99340	0.97940	0.98168	0.98494	0.98856	0.99002	0.99025	0.99058	0.99085	0.99099	0.99131	0.99157	0.99172	0.99190	0.99216	0.99241	0.99239
46	0.97591	0.99163	1.00083	0.99219	0.97904	0.98122	0.98455	0.98836	0.99019	0.99038	0.99075	0.99094	0.99121	0.99148	0.99162	0.99186	0.99218	0.99229	0.99249	0.99249
47	0.97523	0.98936	0.99656	0.99059	0.97891	0.98098	0.98442	0.98836	0.99017	0.99046	0.99077	0.99091	0.99122	0.99147	0.99173	0.99194	0.99212	0.99232	0.99256	0.99256
48	0.97494	0.98638	0.99558	0.98873	0.97911	0.98110	0.98446	0.98850	0.98991	0.99037	0.99063	0.99084	0.99115	0.99136	0.99164	0.99179	0.99205	0.99229	0.99246	0.99268
49	0.97492	0.98351	0.99504	0.98675	0.97949	0.98135	0.98480	0.98878	0.99021	0.99063	0.99085	0.99115	0.99137	0.99162	0.99186	0.99206	0.99229	0.99241	0.99264	0.99290
50	0.97499	0.98110	0.99210	0.98506	0.97994	0.98172	0.98520	0.98902	0.99045	0.99088	0.99119	0.99133	0.99163	0.99186	0.99199	0.99229	0.99243	0.99267	0.99279	0.99301
51	0.97544	0.97930	0.99085	0.98373	0.98057	0.98226	0.98560	0.98933	0.99070	0.99117	0.99139	0.99160	0.99181	0.99211	0.99222	0.99248	0.99265	0.99277	0.99294	0.99320
52	0.97658	0.97789	0.98882	0.98268	0.98102	0.98264	0.98597	0.98959	0.99086	0.99130	0.99153	0.99171	0.99196	0.99223	0.99231	0.99257	0.99278	0.99294	0.99302	0.99329
53	0.97844	0.97682	0.98598	0.98193	0.98142	0.98299	0.98628	0.98977	0.99097	0.99138	0.99165	0.99179	0.99205	0.99226	0.99242	0.99265	0.99282	0.99299	0.99316	0.99334
54	0.98061	0.97608	0.98294	0.98145	0.98177	0.98337	0.98659	0.98994	0.99105	0.99140	0.99165	0.99187	0.99209	0.99227	0.99246	0.99270	0.99289	0.99303	0.99317	0.99342
55	0.98256	0.97563	0.98016	0.98116	0.98229	0.98384	0.98697	0.99013	0.99117	0.99145	0.99168	0.99194	0.99215	0.99232	0.99252	0.99275	0.99291	0.99311	0.99326	0.99342
56	0.98409	0.97552	0.97821	0.98109	0.98287	0.98440	0.98740	0.99036	0.99122	0.99157	0.99173	0.99196	0.99222	0.99243	0.99255	0.99282	0.99298	0.99318	0.99329	0.99347
57	0.98533	0.97581	0.97721	0.98129	0.98337	0.98491	0.98776	0.99051	0.99129	0.99157	0.99174	0.99201	0.99225	0.99242	0.99261	0.99282	0.99301	0.99321	0.99334	0.99348
58	0.98625	0.97653	0.97718	0.98173	0.98381	0.98530	0.98808	0.99057	0.99130	0.99155	0.99174	0.99201	0.99222	0.99243	0.99261	0.99281	0.99299	0.99322	0.99335	0.99349
59	0.98693	0.97748	0.97773	0.98234	0.98424	0.98571	0.98837	0.99063	0.99128	0.99151	0.99174	0.99198	0.99222	0.99241	0.99260	0.99281	0.99301	0.99320	0.99332	0.99350
60	0.98774	0.97813	0.97834	0.98282	0.98461	0.98604	0.98861	0.99068	0.99122	0.99149	0.99171	0.99196	0.99217	0.99241	0.99260	0.99280	0.99298	0.99319	0.99333	0.99351

Non-Disabled Officer Mortality Improvement Rates

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.95904	1.02358	0.97729	0.99418	0.98884	0.99057	0.99101	0.99124	0.99188	0.99203	0.99205	0.99202	0.99231	0.99204	0.99204	0.99245	0.99179	0.99262	0.99229	0.99202
17	0.95712	1.02327	0.97719	0.99433	0.98881	0.99069	0.99129	0.99108	0.99216	0.99208	0.99199	0.99219	0.99243	0.99210	0.99238	0.99241	0.99238	0.99241	0.99242	0.99220
18	0.95580	1.01910	0.97816	0.99437	0.98813	0.99014	0.99108	0.99106	0.99224	0.99190	0.99203	0.99218	0.99259	0.99205	0.99253	0.99231	0.99193	0.99254	0.99251	0.99226
19	0.95489	1.01247	0.98020	0.99421	0.98717	0.98926	0.99035	0.99108	0.99203	0.99188	0.99215	0.99212	0.99226	0.99216	0.99237	0.99238	0.99204	0.99259	0.99226	0.99233
20	0.95393	1.00581	0.98250	0.99407	0.98611	0.98846	0.98984	0.99088	0.99199	0.99200	0.99184	0.99223	0.99212	0.99225	0.99218	0.99242	0.99208	0.99236	0.99230	0.99261
21	0.95365	1.00103	0.98438	0.99400	0.98518	0.98785	0.98916	0.99091	0.99176	0.99196	0.99199	0.99211	0.99203	0.99211	0.99228	0.99223	0.99238	0.99218	0.99233	0.99262
22	0.95438	0.99893	0.98491	0.99368	0.98471	0.98743	0.98895	0.99075	0.99158	0.99212	0.99197	0.99228	0.99179	0.99206	0.99243	0.99216	0.99229	0.99233	0.99223	0.99249
23	0.95618	1.00056	0.98351	0.99310	0.98456	0.98752	0.98878	0.99072	0.99175	0.99191	0.99196	0.99227	0.99175	0.99226	0.99220	0.99215	0.99228	0.99229	0.99248	0.99249
24	0.95890	1.00469	0.98113	0.99234	0.98497	0.98784	0.98884	0.99093	0.99143	0.99216	0.99182	0.99213	0.99205	0.99213	0.99232	0.99225	0.99218	0.99215	0.99236	0.99265
25	0.96190	1.00954	0.97805	0.99149	0.98513	0.98815	0.98912	0.99068	0.99155	0.99194	0.99200	0.99211	0.99203	0.99213	0.99209	0.99228	0.99219	0.99247	0.99242	0.99243
26	0.96520	1.01377	0.97603	0.99078	0.98535	0.98839	0.98914	0.99081	0.99154	0.99195	0.99204	0.99192	0.99206	0.99221	0.99214	0.99234	0.99206	0.99251	0.99229	0.99252
27	0.96998	1.01731	0.97680	0.99074	0.98567	0.98891	0.98938	0.99080	0.99154	0.99192	0.99201	0.99189	0.99202	0.99241	0.99190	0.99233	0.99202	0.99250	0.99252	0.99252
28	0.97611	1.01978	0.98090	0.99163	0.98593	0.98958	0.98997	0.99104	0.99158	0.99176	0.99202	0.99192	0.99223	0.99216	0.99190	0.99249	0.99201	0.99269	0.99248	0.99243
29	0.98305	1.02143	0.98679	0.99308	0.98642	0.99015	0.99060	0.99129	0.99162	0.99178	0.99182	0.99209	0.99218	0.99212	0.99227	0.99218	0.99234	0.99256	0.99257	0.99254
30	0.99036	1.02225	0.99324	0.99453	0.98670	0.99080	0.99126	0.99126	0.99171	0.99189	0.99188	0.99195	0.99222	0.99213	0.99225	0.99237	0.99232	0.99251	0.99268	0.99246
31	0.99674	1.02309	0.99842	0.99584	0.98683	0.99135	0.99169	0.99138	0.99178	0.99177	0.99198	0.99240	0.99191	0.99244	0.99244	0.99211	0.99267	0.99242	0.99282	0.99258
32	1.00084	1.02469	1.00153	0.99706	0.98673	0.99144	0.99175	0.99145	0.99171	0.99164	0.99195	0.99199	0.99222	0.99207	0.99236	0.99227	0.99257	0.99253	0.99246	0.99288
33	1.00211	1.02722	1.00193	0.99821	0.98636	0.99096	0.99163	0.99120	0.99170	0.99164	0.99176	0.99193	0.99229	0.99198	0.99224	0.99231	0.99262	0.99257	0.99249	0.99269
34	1.00113	1.03002	1.00075	0.99921	0.98561	0.99027	0.99100	0.99120	0.99138	0.99173	0.99171	0.99186	0.99201	0.99204	0.99229	0.99234	0.99244	0.99257	0.99270	0.99269
35	0.99929	1.03272	0.99870	1.00005	0.98499	0.98934	0.99041	0.99096	0.99125	0.99156	0.99168	0.99180	0.99192	0.99212	0.99216	0.99240	0.99230	0.99260	0.99251	0.99289
36	0.99736	1.03375	0.99744	1.00055	0.98415	0.98848	0.98996	0.99070	0.99120	0.99135	0.99171	0.99166	0.99193	0.99194	0.99210	0.99231	0.99240	0.99268	0.99240	0.99275
37	0.99507	1.03204	0.99833	1.00072	0.98352	0.98783	0.98937	0.99044	0.99113	0.99137	0.99156	0.99162	0.99185	0.99200	0.99200	0.99234	0.99239	0.99249	0.99256	0.99270
38	0.99261	1.02726	1.00181	1.00051	0.98297	0.98722	0.98897	0.99032	0.99106	0.99125	0.99140	0.99157	0.99175	0.99201	0.99198	0.99228	0.99233	0.99256	0.99245	0.99291
39	0.99001	1.02055	1.00658	0.99594	0.98247	0.98665	0.98873	0.99011	0.99097	0.99123	0.99134	0.99158	0.99164	0.99194	0.99193	0.99232	0.99233	0.99255	0.99258	0.99267
40	0.98753	1.01318	1.01191	0.99913	0.98219	0.98619	0.98847	0.99010	0.99089	0.99109	0.99137	0.99157	0.99171	0.99187	0.99195	0.99229	0.99229	0.99261	0.99261	0.99270
41	0.98512	1.00656	1.01707	0.99817	0.98074	0.98553	0.98850	0.98889	0.99121	0.99103	0.99136	0.99150	0.99172	0.99180	0.99201	0.99229	0.99228	0.99257	0.99267	0.99274
42	0.98275	1.00126	1.01884	0.99709	0.98054	0.98441	0.98768	0.98882	0.99104	0.99093	0.99131	0.99141	0.99167	0.99173	0.99202	0.99217	0.99235	0.99234	0.99269	0.99272
43	0.98046	0.99917	1.01484	0.99590	0.97956	0.98336	0.98674	0.98920	0.99049	0.99070	0.99111	0.99128	0.99147	0.99160	0.99185	0.99206	0.99223	0.99234	0.99263	0.99252
44	0.97868	0.99643	1.01080	0.99466	0.97867	0.98264	0.98601	0.98919	0.98976	0.99070	0.99083	0.99106	0.99127	0.99138	0.99177	0.99186	0.99210	0.99228	0.99244	0.99255
45	0.97698	0.99446	1.00719	0.99351	0.97766	0.98180	0.98529	0.98878	0.98951	0.99052	0.99063	0.99091	0.99099	0.99131	0.99157	0.99173	0.99192	0.99217	0.99241	0.99240
46	0.97591	0.99309	1.00240	0.99227	0.97684	0.98104	0.98484	0.98857	0.98941	0.99038	0.99042	0.99079	0.99092	0.99120	0.99147	0.99162	0.99186	0.99218	0.99228	0.99248
47	0.97523	0.99050	1.00074	0.99069	0.97601	0.98074	0.98462	0.98860	0.98938	0.99036	0.99049	0.99081	0.99091	0.99121	0.99145	0.99173	0.99194	0.99212	0.99232	0.99255
48	0.97492	0.98723	0.99924	0.98877	0.97622	0.98060	0.98461	0.98876	0.98973	0.99043	0.99068	0.99089	0.99118	0.99135	0.99164	0.99180	0.99207	0.99230	0.99247	0.99269
49	0.97490	0.98459	0.99813	0.98672	0.97610	0.98068	0.98498	0.98904	0.99025	0.99039	0.99096	0.99120	0.99140	0.99161	0.99185	0.99206	0.99230	0.99242	0.99265	0.99290
50	0.97497	0.98173	0.99801	0.98491	0.97618	0.98078	0.98534	0.98927	0.99055	0.99058	0.99139	0.99139	0.99168	0.99187	0.99200	0.99231	0.99245	0.99269	0.99281	0.99302
51	0.97540	0.98020	0.99659	0.98348	0.97623	0.98090	0.98551	0.98951	0.99079	0.99089	0.99151	0.99163	0.99183	0.99209	0.99220	0.99246	0.99264	0.99277	0.99294	0.99319
52	0.97655	0.97904	0.99458	0.98231	0.97641	0.98080	0.98584	0.98973	0.99099	0.99102	0.99166	0.99174	0.99199	0.99222	0.99230	0.99256	0.99278	0.99294	0.99302	0.99328
53	0.97841	0.97789	0.99161	0.98144	0.97653	0.98104	0.98597	0.98986	0.99111	0.99121	0.99168	0.99181	0.99207	0.99227	0.99240	0.99263	0.99282	0.99299	0.99316	0.99344
54	0.98058	0.97736	0.98797	0.98088	0.97702	0.98095	0.98614	0.99005	0.99139	0.99148	0.99194	0.99212	0.99229	0.99245	0.99268	0.99288	0.99304	0.99317	0.99342	
55	0.98253	0.97666	0.98557	0.98045	0.97762	0.98099	0.98628	0.99028	0.99132	0.99148	0.99145	0.99206	0.99217	0.99235	0.99251	0.99274	0.99291	0.99311	0.99326	0.99342
56	0.98407	0.97679	0.98370	0.98029	0.97880	0.98102	0.98642	0.99031	0.99135	0.99163	0.99152	0.99205	0.99225	0.99245	0.99254	0.99281	0.99297	0.99318	0.99330	0.99347
57	0.98531	0.97698	0.98265	0.98044	0.97997	0.98111	0.98636	0.99041	0.99139	0.99166	0.99152	0.99211	0.99228	0.99244	0.99260	0.99281	0.99300	0.99321	0.99334	0.99348
58	0.98624	0.97809	0.98264	0.98087	0.98095	0.98114	0.98652	0.99033	0.99138	0.99166	0.99159	0.99204	0.99225	0.99246	0.99262	0.99280	0.99298	0.99322	0.99335	0.99349
59	0.98693	0.97900	0.98327	0.98152	0.98120	0.98150	0.98637	0.99028	0.99138	0.99164	0.99172	0.99184	0.99229	0.99244	0.99261	0.99280	0.99300	0.99320	0.99333	0.99350
60	0.98773	0.97958	0.98367	0.98203	0.98281	0.98180	0.98619	0.99011	0.99128	0.99162	0.99175	0.99175	0.99229	0.99244	0.99262	0.99279	0.99298	0.99318	0.99334	0.99351

Non-Disabled Officer Mortality Improvement Rates (cont'd)

	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
61	0.98838	0.98065	0.98439	0.98252	0.98353	0.98273	0.98602	0.98992	0.99121	0.99159	0.99178	0.99176	0.99230	0.99244	0.99265	0.99278	0.99301	0.99316	0.99335	0.99354
62	0.98814	0.98196	0.98534	0.98333	0.98460	0.98399	0.98609	0.98971	0.99127	0.99166	0.99188	0.99183	0.99235	0.99252	0.99270	0.99286	0.99306	0.99321	0.99339	0.99357
63	0.98693	0.98337	0.98582	0.98449	0.98581	0.98549	0.98639	0.98983	0.99129	0.99181	0.99207	0.99204	0.99242	0.99260	0.99283	0.99296	0.99313	0.99329	0.99347	0.99363
64	0.98539	0.98386	0.98738	0.98566	0.98674	0.98730	0.98700	0.98971	0.99140	0.99200	0.99226	0.99232	0.99240	0.99279	0.99293	0.99310	0.99322	0.99338	0.99354	0.99370
65	0.98396	0.98555	0.98839	0.98689	0.98825	0.98866	0.98761	0.98956	0.99136	0.99215	0.99240	0.99250	0.99247	0.99296	0.99303	0.99320	0.99332	0.99347	0.99361	0.99376
66	0.98317	0.98718	0.98834	0.98776	0.98913	0.98978	0.98855	0.98927	0.99123	0.99218	0.99249	0.99263	0.99258	0.99302	0.99312	0.99328	0.99338	0.99353	0.99367	0.99381
67	0.98328	0.98724	0.98824	0.98781	0.98955	0.99052	0.98936	0.98998	0.99090	0.99200	0.99220	0.99256	0.99273	0.99307	0.99318	0.99333	0.99344	0.99358	0.99371	0.99386
68	0.98438	0.98550	0.98741	0.98713	0.98977	0.99074	0.98991	0.98866	0.99077	0.99210	0.99256	0.99280	0.99272	0.99305	0.99320	0.99337	0.99349	0.99361	0.99375	0.99388
69	0.98600	0.98269	0.98694	0.98601	0.98974	0.99045	0.99057	0.98860	0.99036	0.99198	0.99261	0.99283	0.99285	0.99290	0.99327	0.99338	0.99353	0.99363	0.99377	0.99391
70	0.98770	0.98000	0.98713	0.98498	0.98964	0.99076	0.99087	0.98857	0.98993	0.99176	0.99258	0.99283	0.99290	0.99285	0.99334	0.99341	0.99355	0.99366	0.99379	0.99394
71	0.98915	0.97830	0.98782	0.98437	0.99006	0.99088	0.99126	0.98901	0.98941	0.99149	0.99249	0.99282	0.99294	0.99288	0.99334	0.99342	0.99358	0.99369	0.99382	0.99397
72	0.99031	0.97808	0.98764	0.98411	0.99029	0.99105	0.99167	0.98954	0.98996	0.99106	0.99244	0.99281	0.99299	0.99286	0.99336	0.99344	0.99360	0.99371	0.99385	0.99399
73	0.99112	0.97918	0.98721	0.98419	0.99119	0.99150	0.99199	0.99003	0.98853	0.99086	0.99229	0.99277	0.99301	0.99293	0.99329	0.99345	0.99361	0.99373	0.99386	0.99401
74	0.99173	0.98068	0.98713	0.98455	0.99182	0.99199	0.99202	0.99075	0.98842	0.99038	0.99215	0.99280	0.99304	0.99305	0.99312	0.99350	0.99367	0.99376	0.99388	0.99403
75	0.99215	0.98243	0.98710	0.98515	0.99200	0.99243	0.99265	0.99119	0.98843	0.98999	0.99197	0.99282	0.99309	0.99315	0.99331	0.99361	0.99377	0.99382	0.99393	0.99408
76	0.99263	0.98391	0.98791	0.98585	0.99196	0.99323	0.99295	0.99160	0.98896	0.98950	0.99175	0.99279	0.99314	0.99325	0.99318	0.99365	0.99374	0.99388	0.99400	0.99413
77	0.99338	0.98435	0.98894	0.98668	0.99259	0.99377	0.99316	0.99190	0.98943	0.98895	0.99124	0.99271	0.99310	0.99327	0.99313	0.99365	0.99373	0.99388	0.99401	0.99414
78	0.99443	0.98496	0.99012	0.98766	0.99252	0.99486	0.99352	0.99192	0.98972	0.99087	0.99241	0.99297	0.99320	0.99311	0.99350	0.99367	0.99383	0.99398	0.99410	
79	0.99556	0.98510	0.99167	0.98874	0.99290	0.99560	0.99382	0.99157	0.99027	0.98789	0.99014	0.99213	0.99287	0.99312	0.99314	0.99321	0.99364	0.99377	0.99393	0.99405
80	0.99672	0.98617	0.99237	0.98990	0.99409	0.99585	0.99400	0.99182	0.99042	0.98757	0.98941	0.99168	0.99269	0.99299	0.99307	0.99331	0.99361	0.99369	0.99387	0.99399
81	0.99752	0.98722	0.99340	0.99112	0.99507	0.99581	0.99460	0.99181	0.99071	0.98802	0.98869	0.99131	0.99252	0.99295	0.99309	0.99301	0.99357	0.99368	0.99386	0.99400
82	0.99769	0.98738	0.99476	0.99240	0.99548	0.99642	0.99496	0.99198	0.99128	0.98886	0.98836	0.99098	0.99266	0.99311	0.99330	0.99313	0.99372	0.99382	0.99399	0.99413
83	0.99709	0.98856	0.99605	0.99372	0.99634	0.99622	0.99598	0.99259	0.99193	0.98991	0.98833	0.99120	0.99288	0.99345	0.99369	0.99354	0.99394	0.99409	0.99425	0.99438
84	0.99626	0.98766	0.98658	0.99503	0.99707	0.99649	0.99665	0.99323	0.99226	0.99134	0.98878	0.99116	0.99320	0.99391	0.99412	0.99406	0.99407	0.99447	0.99454	0.99466
85	0.99539	0.98940	0.99958	0.99633	0.99765	0.99758	0.99675	0.99369	0.99320	0.99224	0.98923	0.99108	0.99334	0.99425	0.99446	0.99444	0.99428	0.99480	0.99480	0.99490
86	0.99483	0.98988	1.00165	0.99759	0.99848	0.99845	0.99649	0.99440	0.99356	0.99297	0.99016	0.99079	0.99331	0.99439	0.99469	0.99470	0.99451	0.99497	0.99498	0.99506
87	0.99467	0.99235	1.00171	0.99881	0.99957	0.99876	0.99688	0.99463	0.99369	0.99352	0.99104	0.99049	0.99299	0.99449	0.99480	0.99487	0.99461	0.99507	0.99515	
88	0.99487	0.99356	1.00303	0.99999	0.99993	0.99955	0.99642	0.99533	0.99390	0.99375	0.99173	0.99016	0.99287	0.99437	0.99482	0.99494	0.99473	0.99502	0.99510	0.99518
89	0.99530	0.99482	1.00381	1.00111	1.00035	1.00023	0.99644	0.99553	0.99396	0.99348	0.99259	0.99015	0.99238	0.99423	0.99482	0.99495	0.99486	0.99482	0.99514	0.99518
90	0.99585	0.99610	1.00442	1.00217	1.00035	1.00073	0.99725	0.99517	0.99384	0.99382	0.99294	0.99014	0.99191	0.99394	0.99474	0.99490	0.99487	0.99471	0.99517	0.99515
91	0.99643	0.99736	1.00491	1.00318	0.99963	1.00168	0.99801	0.99441	0.99445	0.99373	0.99324	0.99070	0.99136	0.99363	0.99457	0.99483	0.99486	0.99469	0.99510	0.99511
92	0.99695	0.99859	1.00532	1.00413	1.00006	1.00195	0.99817	0.99443	0.99439	0.99361	0.99353	0.99132	0.99096	0.99319	0.99449	0.99477	0.99485	0.99465	0.99507	0.99508
93	0.99738	0.99978	1.00570	1.00502	1.00046	1.00219	0.99832	0.99447	0.99390	0.99401	0.99366	0.99191	0.99067	0.99306	0.99432	0.99472	0.99486	0.99470	0.99498	0.99506
94	0.99766	1.00090	1.00607	1.00585	1.00083	1.00241	0.99847	0.99456	0.99392	0.99402	0.99370	0.99247	0.99076	0.99273	0.99423	0.99474	0.99487	0.99482	0.99482	0.99510
95	0.99789	1.00180	1.00637	1.00652	1.00113	1.00258	0.99860	0.99463	0.99394	0.99402	0.99374	0.99312	0.99084	0.99243	0.99406	0.99471	0.99486	0.99476	0.99486	0.99514
96	0.99806	1.00248	1.00660	1.00703	1.00135	1.00269	0.99869	0.99468	0.99395	0.99402	0.99378	0.99353	0.99214	0.99147	0.99358	0.99463	0.99485	0.99489	0.99479	0.99512
97	0.99818	1.00293	1.00677	1.00737	1.00151	1.00275	0.99875	0.99472	0.99396	0.99402	0.99388	0.99376	0.99289	0.99250	0.99306	0.99366	0.99470	0.99482	0.99484	0.99512
98	0.99823	1.00317	1.00687	1.00754	1.00159	1.00277	0.99877	0.99474	0.99396	0.99402	0.99382	0.99380	0.99245	0.99189	0.99312	0.99449	0.99481	0.99494	0.99484	0.99507
99	0.99823	1.00317	1.00690	1.00754	1.00159	1.00272	0.99877	0.99475	0.99396	0.99402	0.99384	0.99366	0.99256	0.99204	0.99273	0.99456	0.99483	0.99496	0.99493	0.99494
100	0.99823	1.00318	1.00693	1.00754	1.00160	1.00268	0.99876	0.99476	0.99396	0.99401	0.99385	0.99370	0.99267	0.99219	0.99284	0.99420	0.99480	0.99495	0.99496	0.99489
101	0.99823	1.00319	1.00696	1.00754	1.00161	1.00264	0.99875	0.99477	0.99396	0.99401	0.99387	0.99373	0.99278	0.99235	0.99295	0.99393	0.99473	0.99493	0.99498	0.99491
102	0.99823	1.00320	1.00699	1.00754	1.00162	1.00260	0.99874	0.99478	0.99396	0.99400	0.99388	0.99376	0.99289	0.99250	0.99306	0.99366	0.99470	0.99492	0.99500	0.99490
103	0.99823	1.00320	1.00703	1.00754	1.00162	1.00255	0.99874	0.99479	0.99396	0.99400	0.99390	0.99380	0.99301	0.99285	0.99317	0.99350	0.99461	0.99489	0.99501	0.99495
104	0.99823	1.00321	1.00706	1.00754	1.00163	1.00251	0.99873	0.99480	0.99396	0.99399	0.99391	0.99383	0.99312	0.99281	0.99329	0.99334	0.99455	0.99490	0.99502	0.99502
105	0.99823	1.00322	1.00709	1.00754	1.00164	1.00246	0.99872	0.99481	0.99396	0.99399	0.99387	0.99370	0.99324	0.99296	0.99340	0.99331	0.99443	0.99487	0.99500	0.99504
106	0.99823	1.00323	1.00712	1.00754	1.00164	1.00242	0.99871	0.99482	0.99396	0.99399	0.99389	0.99380	0.99335	0.99312	0.99351	0.99337	0.99432	0.99481	0.99498	0.99504
107	0.99823	1.00323	1.00716	1.00754	1.00165	1.00238	0.99871	0.99483	0.99396	0.99398	0.99388	0.99374	0.99347	0.99328	0.99363	0.99349	0.99416	0.99477	0.99496	0.99505
108	0.99823	1.00324	1.00719	1.00754	1.00166	1.00233	0.99870	0.99484	0.99396	0.99398	0.99388	0.99374	0.99359	0.99344	0.99374	0.99358	0.99415			

Non-Disabled Enlisted Mortality Improvement Rates

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.95907	1.02350	0.97651	0.99417	0.99046	0.98896	0.98986	0.99122	0.99187	0.99203	0.99205	0.99202	0.99231	0.99204	0.99204	0.99245	0.99179	0.99262	0.99229	0.99202
17	0.95716	1.02319	0.97638	0.99432	0.99049	0.98901	0.99010	0.99105	0.99214	0.99208	0.99199	0.99219	0.99243	0.99210	0.99238	0.99241	0.99238	0.99242	0.99249	0.99220
18	0.95584	1.01899	0.97733	0.99436	0.98989	0.98839	0.98983	0.99100	0.99222	0.99190	0.99203	0.99218	0.99259	0.99205	0.99253	0.99231	0.99193	0.99253	0.99251	0.99226
19	0.95495	1.01234	0.97936	0.99421	0.98902	0.98744	0.98904	0.99105	0.99202	0.99188	0.99214	0.99212	0.99226	0.99216	0.99236	0.99238	0.99238	0.99205	0.99259	0.99233
20	0.95399	1.00565	0.98164	0.99407	0.98804	0.98655	0.98827	0.99085	0.99197	0.99200	0.99184	0.99224	0.99212	0.99225	0.99218	0.99242	0.99209	0.99236	0.99230	0.99261
21	0.95373	1.00087	0.98350	0.99401	0.98717	0.98589	0.98775	0.99088	0.99174	0.99196	0.99199	0.99211	0.99203	0.99212	0.99228	0.99223	0.99239	0.99218	0.99233	0.99262
22	0.95447	0.99875	0.98404	0.99369	0.98671	0.98545	0.98752	0.99072	0.99156	0.99212	0.99196	0.99228	0.99179	0.99206	0.99243	0.99216	0.99230	0.99233	0.99222	0.99249
23	0.95627	1.00037	0.98263	0.99310	0.98653	0.98558	0.98736	0.99069	0.99173	0.99192	0.99196	0.99227	0.99175	0.99226	0.99220	0.99215	0.99229	0.99229	0.99247	0.99249
24	0.95898	1.00450	0.98026	0.99234	0.98689	0.98596	0.98748	0.99090	0.99141	0.99216	0.99182	0.99213	0.99205	0.99213	0.99232	0.99225	0.99218	0.99215	0.99236	0.99265
25	0.96198	1.00935	0.97719	0.99148	0.98696	0.98635	0.98762	0.99065	0.99153	0.99194	0.99200	0.99211	0.99203	0.99213	0.99209	0.99228	0.99220	0.99247	0.99241	0.99243
26	0.96529	1.01358	0.97519	0.99077	0.98710	0.98667	0.98790	0.99078	0.99152	0.99195	0.99204	0.99192	0.99205	0.99221	0.99214	0.99234	0.99207	0.99251	0.99229	0.99252
27	0.97007	1.01713	0.97596	0.99072	0.98735	0.98725	0.98818	0.99078	0.99152	0.99192	0.99201	0.99189	0.99202	0.99241	0.99190	0.99233	0.99203	0.99250	0.99252	0.99252
28	0.97621	1.01961	0.98007	0.99161	0.98757	0.98797	0.98880	0.99102	0.99157	0.99176	0.99202	0.99192	0.99223	0.99216	0.99190	0.99249	0.99201	0.99269	0.99248	0.99243
29	0.98317	1.02128	0.98596	0.99306	0.98805	0.98856	0.98943	0.99126	0.99161	0.99178	0.99182	0.99209	0.99218	0.99212	0.99226	0.99218	0.99234	0.99256	0.99257	0.99254
30	0.99049	1.02210	0.99243	0.99451	0.98831	0.98922	0.99011	0.99123	0.99170	0.99189	0.99188	0.99195	0.99222	0.99213	0.99225	0.99237	0.99232	0.99251	0.99268	0.99246
31	0.99689	1.02296	0.99762	0.99582	0.98843	0.98980	0.99055	0.99135	0.99177	0.99177	0.99178	0.99198	0.99240	0.99191	0.99244	0.99211	0.99268	0.99242	0.99282	0.99258
32	1.00101	1.02457	1.00074	0.99703	0.98929	0.98993	0.99063	0.99143	0.99170	0.99164	0.99194	0.99199	0.99222	0.99207	0.99236	0.99227	0.99258	0.99253	0.99246	0.99288
33	1.00228	1.02712	1.00113	0.99818	0.98788	0.98950	0.99054	0.99117	0.99169	0.99164	0.99176	0.99193	0.99229	0.99198	0.99224	0.99231	0.99262	0.99256	0.99249	0.99269
34	1.00131	1.02994	0.99996	0.99919	0.98708	0.98886	0.98994	0.99118	0.99136	0.99173	0.99171	0.99186	0.99201	0.99204	0.99229	0.99234	0.99245	0.99257	0.99270	0.99269
35	0.99948	1.03265	0.99791	1.00004	0.98640	0.98798	0.98939	0.99094	0.99124	0.99156	0.99168	0.99180	0.99192	0.99212	0.99216	0.99240	0.99230	0.99260	0.99251	0.99289
36	0.99755	1.03369	0.99665	1.00054	0.98552	0.98716	0.98897	0.99068	0.99119	0.99135	0.99171	0.99166	0.99193	0.99195	0.99210	0.99231	0.99240	0.99268	0.99240	0.99275
37	0.99526	1.03200	1.00095	1.00065	0.98487	0.98653	0.98840	0.99042	0.99111	0.99137	0.99156	0.99162	0.99185	0.99200	0.99234	0.99239	0.99249	0.99256	0.99270	0.99270
38	0.99280	1.02723	1.00578	1.00045	0.98431	0.98593	0.98800	0.99030	0.99105	0.99125	0.99140	0.99157	0.99175	0.99201	0.99198	0.99228	0.99233	0.99256	0.99245	0.99291
39	0.99020	1.02052	1.01002	0.99993	0.98326	0.98535	0.98778	0.99008	0.99096	0.99123	0.99134	0.99158	0.99164	0.99194	0.99193	0.99232	0.99233	0.99255	0.99258	0.99267
40	0.98772	1.01266	1.01644	0.99915	0.98216	0.98489	0.98751	0.99005	0.99089	0.99109	0.99137	0.99157	0.99171	0.99188	0.99195	0.99229	0.99229	0.99261	0.99261	0.99270
41	0.98529	1.00756	1.01904	0.99821	0.98094	0.98455	0.98725	0.98989	0.99094	0.99101	0.99133	0.99148	0.99171	0.99182	0.99201	0.99229	0.99227	0.99257	0.99267	0.99273
42	0.98292	1.00290	1.01949	0.99714	0.97917	0.98400	0.98685	0.98967	0.99070	0.99089	0.99126	0.99138	0.99166	0.99175	0.99201	0.99215	0.99234	0.99233	0.99269	0.99272
43	0.98061	1.00002	1.01702	0.99598	0.97838	0.98329	0.98623	0.98935	0.99052	0.99066	0.99105	0.99123	0.99147	0.99161	0.99185	0.99205	0.99221	0.99232	0.99263	0.99251
44	0.97857	0.99753	1.01329	0.99477	0.97719	0.98258	0.98556	0.98890	0.99026	0.99053	0.99077	0.99099	0.99127	0.99138	0.99177	0.99184	0.99208	0.99226	0.99244	0.99254
45	0.97699	0.99542	1.00886	0.99360	0.97706	0.98160	0.98492	0.98852	0.99001	0.99025	0.99057	0.99083	0.99098	0.99131	0.99156	0.99171	0.99190	0.99215	0.99240	0.99239
46	0.97590	0.99300	1.00532	0.99237	0.97662	0.98060	0.98455	0.98831	0.98976	0.99018	0.99036	0.99072	0.99090	0.99119	0.99146	0.99160	0.99184	0.99216	0.99227	0.99247
47	0.97520	0.99039	1.00226	0.99074	0.97660	0.97946	0.98442	0.98831	0.98971	0.99016	0.99043	0.99074	0.99088	0.99119	0.99144	0.99171	0.99192	0.99210	0.99230	0.99254
48	0.97489	0.98754	1.00023	0.98878	0.97635	0.97940	0.98450	0.98847	0.98988	0.99038	0.99062	0.99083	0.99114	0.99135	0.99163	0.99178	0.99205	0.99228	0.99246	0.99267
49	0.97486	0.98472	0.99887	0.98670	0.97642	0.97923	0.98491	0.98874	0.99018	0.99063	0.99084	0.99114	0.99135	0.99160	0.99184	0.99204	0.99227	0.99240	0.99263	0.99289
50	0.97491	0.98229	0.99803	0.98487	0.97630	0.97994	0.98513	0.98900	0.99044	0.99089	0.99120	0.99134	0.99163	0.99186	0.99199	0.99230	0.99243	0.99267	0.99279	0.99301
51	0.97535	0.98042	0.99677	0.98343	0.97651	0.98027	0.98509	0.98930	0.99066	0.99113	0.99138	0.99158	0.99178	0.99208	0.99219	0.99245	0.99262	0.99275	0.99292	0.99317
52	0.97648	0.97894	0.99480	0.98225	0.97696	0.98068	0.98480	0.98957	0.99082	0.99126	0.99153	0.99169	0.99194	0.99220	0.99229	0.99256	0.99276	0.99292	0.99300	0.99327
53	0.97835	0.97795	0.99180	0.98135	0.97754	0.98062	0.98494	0.98978	0.99093	0.99134	0.99165	0.99177	0.99203	0.99224	0.99240	0.99263	0.99280	0.99297	0.99314	0.99333
54	0.98052	0.97782	0.98859	0.98074	0.97828	0.98070	0.98487	0.99000	0.99102	0.99136	0.99165	0.99185	0.99207	0.99225	0.99245	0.99268	0.99287	0.99302	0.99315	0.99341
55	0.98247	0.97676	0.98564	0.98033	0.97915	0.98061	0.98545	0.99004	0.99113	0.99142	0.99167	0.99192	0.99213	0.99230	0.99251	0.99274	0.99289	0.99309	0.99324	0.99341
56	0.98401	0.97665	0.98368	0.98015	0.98034	0.98082	0.98574	0.98996	0.99120	0.99154	0.99170	0.99195	0.99221	0.99241	0.99253	0.99280	0.99296	0.99316	0.99328	0.99346
57	0.98525	0.97704	0.98263	0.98031	0.98136	0.98124	0.98608	0.98953	0.99128	0.99155	0.99171	0.99201	0.99224	0.99240	0.99259	0.99280	0.99299	0.99320	0.99332	0.99346
58	0.98617	0.97769	0.98260	0.98074	0.98199	0.98174	0.98602	0.98944	0.99132	0.99152	0.99171	0.99201	0.99221	0.99242	0.99259	0.99280	0.99298	0.99321	0.99334	0.99348
59	0.98684	0.97859	0.98313	0.98139	0.98260	0.98243	0.98603	0.98917	0.99136	0.99149	0.99172	0.99198	0.99222	0.99240	0.99259	0.99280	0.99300	0.99319	0.99331	0.99349
60	0.98766	0.97926	0.98379	0.98191	0.98311	0.98305	0.98574	0.98938	0.99116	0.99147	0.99169	0.99196	0.99217	0.99240	0.99259	0.99280	0.99298	0.99318	0.99333	0.99350

Non-Disabled Enlisted Mortality Improvement Rates (cont'd)

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
61	0.98828	0.97998	0.98428	0.98241	0.98377	0.98404	0.98573	0.98931	0.99090	0.99148	0.99172	0.99192	0.99221	0.99241	0.99262	0.99278	0.99301	0.99316	0.99335	0.99354
62	0.98802	0.98106	0.98492	0.98324	0.98469	0.98525	0.98612	0.98948	0.99046	0.99157	0.99179	0.99202	0.99226	0.99249	0.99267	0.99286	0.99306	0.99321	0.99339	0.99356
63	0.98683	0.98276	0.98574	0.98439	0.98604	0.98645	0.98689	0.98940	0.99040	0.99175	0.99215	0.99240	0.99267	0.99280	0.99294	0.99307	0.99314	0.99329	0.99346	0.99362
64	0.98533	0.98470	0.98664	0.98555	0.98721	0.98772	0.98787	0.98943	0.99033	0.99199	0.99211	0.99232	0.99253	0.99272	0.99290	0.99307	0.99322	0.99339	0.99354	0.99369
65	0.98390	0.98671	0.98734	0.98679	0.98844	0.98893	0.98880	0.98918	0.99064	0.99203	0.99226	0.99247	0.99266	0.99284	0.99299	0.99317	0.99332	0.99347	0.99360	0.99375
66	0.99312	0.98800	0.98791	0.98764	0.98929	0.98999	0.98982	0.98906	0.99062	0.99187	0.99237	0.99257	0.99275	0.99293	0.99308	0.99325	0.99337	0.99353	0.99367	0.99380
67	0.98323	0.98743	0.98832	0.98770	0.98981	0.99059	0.99059	0.99069	0.99138	0.99246	0.99263	0.99281	0.99298	0.99315	0.99330	0.99343	0.99357	0.99371	0.99385	0.99398
68	0.98433	0.98548	0.98826	0.98986	0.99096	0.99086	0.99086	0.99094	0.99124	0.99252	0.99268	0.99284	0.99303	0.99316	0.99334	0.99347	0.99361	0.99374	0.99387	0.99402
69	0.98596	0.98256	0.98801	0.98580	0.98984	0.99089	0.99102	0.98953	0.99009	0.99088	0.99260	0.99268	0.99284	0.99304	0.99320	0.99335	0.99350	0.99363	0.99377	0.99390
70	0.98766	0.97991	0.98769	0.98483	0.98970	0.99094	0.99117	0.98981	0.98955	0.99102	0.99246	0.99269	0.99287	0.99305	0.99322	0.99338	0.99352	0.99366	0.99379	0.99394
71	0.98911	0.97821	0.98785	0.98427	0.98985	0.99104	0.99150	0.99034	0.98920	0.99086	0.99217	0.99271	0.99288	0.99305	0.99325	0.99339	0.99355	0.99369	0.99382	0.99396
72	0.99027	0.97777	0.98754	0.98402	0.99016	0.99130	0.99178	0.99084	0.98907	0.99083	0.99158	0.99271	0.99289	0.99306	0.99327	0.99341	0.99357	0.99371	0.99385	0.99399
73	0.99108	0.97838	0.98717	0.98411	0.99054	0.99159	0.99225	0.99105	0.98913	0.99041	0.99139	0.99274	0.99289	0.99307	0.99327	0.99342	0.99359	0.99372	0.99387	0.99402
74	0.99168	0.97978	0.98682	0.98449	0.99096	0.99210	0.99250	0.99127	0.98940	0.99008	0.99097	0.99279	0.99289	0.99306	0.99327	0.99343	0.99359	0.99374	0.99389	0.99404
75	0.99211	0.98131	0.98690	0.98505	0.99160	0.99250	0.99287	0.99154	0.98974	0.98956	0.99118	0.99271	0.99289	0.99312	0.99332	0.99349	0.99365	0.99380	0.99394	0.99409
76	0.99260	0.98258	0.98718	0.98577	0.99230	0.99305	0.99315	0.99188	0.99036	0.98924	0.99107	0.99245	0.99302	0.99319	0.99337	0.99356	0.99371	0.99385	0.99401	0.99414
77	0.99337	0.98393	0.98781	0.98663	0.99278	0.99367	0.99345	0.99204	0.99081	0.98903	0.99099	0.99178	0.99301	0.99317	0.99335	0.99356	0.99371	0.99386	0.99401	0.99415
78	0.99446	0.98448	0.98883	0.98761	0.99345	0.99424	0.99365	0.99224	0.99083	0.98889	0.99036	0.99141	0.99294	0.99307	0.99327	0.99348	0.99364	0.99380	0.99397	0.99412
79	0.99561	0.98604	0.99000	0.98867	0.99406	0.99476	0.99399	0.99214	0.99085	0.98895	0.99078	0.99288	0.99296	0.99317	0.99340	0.99357	0.99374	0.99392	0.99408	0.99423
80	0.99680	0.98643	0.99145	0.98982	0.99477	0.99547	0.99412	0.99211	0.99082	0.98903	0.98887	0.99076	0.99257	0.99284	0.99305	0.99329	0.99348	0.99366	0.99385	0.99401
81	0.99766	0.98733	0.99222	0.99106	0.99516	0.99621	0.99444	0.99207	0.99104	0.98962	0.98834	0.99051	0.99214	0.99283	0.99303	0.99325	0.99348	0.99366	0.99384	0.99402
82	0.99776	0.98806	0.99432	0.99236	0.99578	0.99665	0.99488	0.99233	0.99144	0.99043	0.98837	0.99067	0.99158	0.99302	0.99320	0.99340	0.99363	0.99380	0.99397	0.99414
83	0.99716	0.98889	0.99634	0.99368	0.99670	0.99723	0.99534	0.99275	0.99228	0.99114	0.98893	0.99058	0.99174	0.99343	0.99355	0.99372	0.99393	0.99408	0.99423	0.99438
84	0.99623	0.98970	0.99846	0.99502	0.99717	0.99774	0.99577	0.99342	0.99288	0.99194	0.98983	0.99070	0.99174	0.99394	0.99396	0.99410	0.99428	0.99440	0.99453	0.99465
85	0.99537	0.99057	1.00043	0.99634	0.99747	0.99832	0.99636	0.99382	0.99349	0.99263	0.99067	0.99043	0.99235	0.99413	0.99431	0.99442	0.99457	0.99468	0.99478	0.99488
86	0.99482	0.99156	1.00210	0.99762	0.99796	0.99856	0.99693	0.99423	0.99382	0.99328	0.99172	0.99030	0.99246	0.99401	0.99457	0.99465	0.99476	0.99488	0.99496	0.99504
87	0.99466	0.99266	1.00341	0.99886	0.99803	0.99943	0.99713	0.99455	0.99405	0.99367	0.99256	0.99307	0.99262	0.99342	0.99472	0.99478	0.99487	0.99498	0.99505	0.99513
88	0.99485	0.99998	1.00674	1.00510	1.00065	1.00132	0.99836	0.99480	0.99389	0.99388	0.99375	0.99306	0.99095	0.99246	0.99340	0.99471	0.99476	0.99485	0.99498	0.99505
89	0.99528	0.99509	1.00512	1.00117	0.99898	0.99888	0.99773	0.99482	0.99410	0.99410	0.99317	0.99103	0.99188	0.99284	0.99485	0.99481	0.99489	0.99501	0.99508	0.99516
90	0.99584	0.99635	1.00566	1.00224	0.99944	1.00028	0.99781	0.99481	0.99403	0.99403	0.99382	0.99095	0.99122	0.99302	0.99463	0.99476	0.99486	0.99497	0.99505	0.99513
91	0.99641	0.99760	1.00608	1.00325	0.99987	1.00065	0.99807	0.99479	0.99396	0.99396	0.99378	0.99185	0.99082	0.99285	0.99423	0.99473	0.99481	0.99491	0.99503	0.99510
92	0.99694	0.99882	1.00643	1.00420	1.00027	1.00100	0.99821	0.99478	0.99391	0.99391	0.99375	0.99261	0.99075	0.99284	0.99356	0.99470	0.99478	0.99487	0.99500	0.99507
93	0.99736	0.99998	1.00674	1.00510	1.00065	1.00132	0.99836	0.99480	0.99389	0.99388	0.99375	0.99306	0.99095	0.99246	0.99340	0.99471	0.99476	0.99485	0.99498	0.99505
94	0.99765	1.00108	1.00705	1.00594	1.00100	1.00161	0.99851	0.99485	0.99391	0.99390	0.99378	0.99376	0.99103	0.99226	0.99310	0.99476	0.99476	0.99485	0.99497	0.99505
95	0.99788	1.00197	1.00729	1.00661	1.00128	1.00185	0.99863	0.99490	0.99393	0.99392	0.99382	0.99380	0.99163	0.99182	0.99332	0.99463	0.99476	0.99486	0.99497	0.99506
96	0.99805	1.00264	1.00747	1.00712	1.00149	1.00203	0.99872	0.99493	0.99394	0.99393	0.99384	0.99384	0.99244	0.99156	0.99324	0.99436	0.99477	0.99486	0.99496	0.99507
97	0.99817	1.00308	1.00759	1.00746	1.00163	1.00215	0.99878	0.99495	0.99395	0.99394	0.99387	0.99387	0.99357	0.99105	0.99327	0.99388	0.99478	0.99486	0.99495	0.99507
98	0.99823	1.00330	1.00764	1.00763	1.00170	1.00220	0.99880	0.99495	0.99396	0.99394	0.99388	0.99389	0.99362	0.99150	0.99296	0.99376	0.99480	0.99486	0.99495	0.99506
99	0.99823	1.00330	1.00764	1.00763	1.00170	1.00220	0.99879	0.99495	0.99396	0.99394	0.99388	0.99391	0.99366	0.99196	0.99373	0.99484	0.99484	0.99486	0.99495	0.99506
100	0.99823	1.00330	1.00763	1.00763	1.00170	1.00220	0.99879	0.99495	0.99396	0.99394	0.99391	0.99393	0.99370	0.99237	0.99229	0.99364	0.99473	0.99486	0.99495	0.99506
101	0.99823	1.00330	1.00762	1.00763	1.00170	1.00219	0.99878	0.99494	0.99396	0.99395	0.99392	0.99394	0.99374	0.99361	0.99190	0.99305	0.99451	0.99487	0.99495	0.99505
102	0.99822	1.00329	1.00761	1.00763	1.00170	1.00219	0.99877	0.99494	0.99396	0.99395	0.99393	0.99396	0.99378	0.99367	0.99210	0.99329	0.99410	0.99487	0.99495	0.99504
103	0.99822	1.00329	1.00761	1.00763	1.00170	1.00219	0.99876	0.99493	0.99396	0.99395	0.99398	0.99382	0.99373	0.99229	0.99323	0.99401	0.99489	0.99495	0.99504	0.99504
104	0.99822	1.00329	1.00760	1.00763	1.00170	1.00218	0.99875	0.99493	0.99396	0.99395	0.99395	0.99386	0.99379	0.99248	0.99331	0.99381	0.99491	0.99494	0.99504	0.99504
105	0.99822	1.00329	1.00759	1.00763	1.00170	1.00218	0.99874	0.99493	0.99396	0.99395	0.99397	0.99402	0.99390	0.99385	0.99268	0.99320	0.99396	0.99482	0.99494	0.99503
106	0.99822	1.00329	1.00759	1.00763	1.00170	1.00217	0.99873	0.99492	0.99396	0.99395	0.99398	0.99403	0.99395	0.99391	0.99287	0.99339	0.99392	0.99465	0.99494	0.99502
107	0.99822	1.00328	1.00758	1.00763	1.00170	1.00217	0.99872	0.99492	0.99397	0.99395	0.99399	0.99405	0.99399	0.99397	0.99307	0.99366	0.99395	0.99437	0.99493	0.99501
108	0.99822	1.00328	1.00757	1.00763	1.00170	1.00217	0.99871	0.99491	0.99397	0.99396	0.99400	0.99407	0.99403	0.99403	0.99327	0.				

Survivor Mortality Improvement Rates

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.97149	1.00879	0.98701	0.99702	0.99258	0.99320	0.99442	0.99396	0.99433	0.99351	0.99424	0.99381	0.99330	0.99315	0.99250	0.99272	0.99228	0.99294	0.99195	0.99240
17	0.97015	1.00879	0.98560	0.99660	0.99269	0.99276	0.99417	0.99494	0.99428	0.99463	0.99432	0.99439	0.99305	0.99288	0.99288	0.99283	0.99305	0.99228	0.99277	0.99249
18	0.96349	1.00691	0.98492	0.99595	0.99334	0.99208	0.99422	0.99490	0.99476	0.99486	0.99443	0.99358	0.99333	0.99365	0.99198	0.99385	0.99198	0.99306	0.99234	0.99269
19	0.96695	1.00362	0.98428	0.99492	0.99117	0.99075	0.99321	0.99456	0.99531	0.99535	0.99460	0.99564	0.99517	0.99387	0.99345	0.99366	0.99245	0.99289	0.99211	0.99323
20	0.96502	1.00024	0.98333	0.99374	0.98870	0.99880	0.99173	0.99396	0.99593	0.99551	0.99479	0.99644	0.99537	0.99465	0.99351	0.99363	0.99218	0.99321	0.99245	0.99305
21	0.96379	0.99753	0.98311	0.99279	0.98719	0.98807	0.99058	0.99427	0.99536	0.99624	0.99564	0.99620	0.99619	0.99492	0.99439	0.99367	0.99220	0.99362	0.99231	0.99291
22	0.96346	0.99717	0.98304	0.99225	0.98521	0.98721	0.99021	0.99348	0.99540	0.99629	0.99590	0.99650	0.99642	0.99518	0.99471	0.99388	0.99223	0.99362	0.99223	0.99282
23	0.96481	0.99996	0.98337	0.99327	0.98906	0.99213	0.99316	0.99537	0.99557	0.99582	0.99615	0.99659	0.99583	0.99541	0.99493	0.99410	0.99256	0.99313	0.99242	0.99292
24	0.96676	1.00484	0.98443	0.99264	0.98922	0.97475	0.99063	0.99356	0.99554	0.99596	0.99558	0.99558	0.99538	0.99429	0.99472	0.99390	0.99275	0.99290	0.99264	0.99317
25	0.96925	1.00987	0.98539	0.99291	0.96024	0.97650	0.99093	0.99298	0.99486	0.99536	0.99564	0.99525	0.99496	0.99425	0.99427	0.99412	0.99261	0.99334	0.99248	0.99270
26	0.97128	1.01422	0.98668	0.99339	0.95954	0.98018	0.99167	0.99264	0.99467	0.99487	0.99543	0.99482	0.99451	0.99436	0.99398	0.99372	0.99352	0.99247	0.99325	0.99249
27	0.97443	1.01710	0.98853	0.99436	0.99263	0.97923	0.99122	0.99304	0.99449	0.99473	0.99489	0.99455	0.99411	0.99412	0.99409	0.99404	0.99333	0.99279	0.99303	0.99285
28	0.97881	1.01801	0.99140	0.99600	0.99123	0.99445	0.97881	0.99297	0.99450	0.99434	0.99473	0.99490	0.99399	0.99389	0.99433	0.99348	0.99357	0.99274	0.99328	0.99256
29	0.98301	1.01818	0.99427	0.99787	1.00889	0.97818	0.97876	0.99324	0.99444	0.99427	0.99453	0.99491	0.99403	0.99414	0.99423	0.99375	0.99320	0.99297	0.99314	0.99288
30	0.98778	1.01717	0.99705	0.99969	0.99076	0.97434	0.97963	0.99308	0.99391	0.99452	0.99426	0.99463	0.99409	0.99409	0.99406	0.99375	0.99357	0.99335	0.99262	0.99317
31	0.99125	1.01622	0.99984	1.00125	1.00005	0.97057	0.98133	0.99374	0.99349	0.99440	0.99442	0.99464	0.99467	0.99369	0.99446	0.99352	0.99359	0.99342	0.99297	0.99306
32	0.99246	1.01590	1.00222	1.00227	0.99130	0.99018	0.98006	0.99377	0.99404	0.99392	0.99417	0.99463	0.99493	0.99367	0.99404	0.99388	0.99361	0.99333	0.99292	0.99316
33	0.99161	1.01621	1.00477	1.00308	0.97216	0.98874	0.99398	0.98163	0.99377	0.99396	0.99413	0.99464	0.99455	0.99378	0.99395	0.99356	0.99353	0.99338	0.99286	0.99343
34	0.98895	1.01671	1.00675	1.00346	0.98479	1.00102	0.98266	0.98167	0.99346	0.99364	0.99411	0.99453	0.99415	0.99385	0.99399	0.99355	0.99355	0.99341	0.99291	0.99342
35	0.99477	1.01330	1.01479	1.00362	0.98561	0.98767	0.98027	0.98236	0.99329	0.99328	0.99398	0.99417	0.99381	0.99386	0.99363	0.99357	0.99350	0.99350	0.99298	0.99347
36	0.99188	1.01085	1.02828	1.00330	0.98553	0.99396	0.97672	0.98451	0.99350	0.99305	0.99376	0.99367	0.99379	0.99380	0.99329	0.99330	0.99357	0.99355	0.99311	0.99346
37	0.97957	1.00993	1.01959	1.00269	0.98275	0.98594	0.98785	0.98459	0.99370	0.99293	0.99340	0.99348	0.99334	0.99356	0.99332	0.99329	0.99331	0.99359	0.99311	0.99355
38	0.97737	1.00181	1.01934	1.00157	0.98671	0.97898	0.98718	0.99216	0.98741	0.99280	0.99324	0.99343	0.99314	0.99359	0.99312	0.99311	0.99337	0.99362	0.99327	0.99367
39	0.97495	0.99863	1.02317	1.00010	0.97736	0.98215	0.99141	0.98818	0.98777	0.99282	0.99311	0.99306	0.99341	0.99318	0.99343	0.99320	0.99320	0.99371	0.99339	0.99365
40	0.97328	0.99322	1.02348	0.99868	0.98166	0.98230	0.98671	0.98774	0.98844	0.99285	0.99302	0.99299	0.99318	0.99327	0.99338	0.99311	0.99331	0.99382	0.99328	0.99378
41	0.97218	0.99125	1.01932	0.99727	0.98150	0.98218	0.98910	0.98613	0.98894	0.99323	0.99285	0.99287	0.99333	0.99307	0.99361	0.99307	0.99326	0.99398	0.99324	0.99371
42	0.97200	0.98612	1.02042	0.99576	0.98206	0.98158	0.98587	0.99063	0.98877	0.99317	0.99277	0.99289	0.99318	0.99305	0.99358	0.99327	0.99326	0.99367	0.99342	0.99364
43	0.97256	0.98647	1.01168	0.99409	0.98196	0.98371	0.98367	0.99047	0.99266	0.98972	0.99267	0.99275	0.99319	0.99291	0.99357	0.99306	0.99322	0.99379	0.99340	0.99354
44	0.97366	0.98415	1.00795	0.99249	0.98433	0.98077	0.98499	0.99219	0.99099	0.98989	0.99253	0.99267	0.99308	0.99294	0.99338	0.99311	0.99321	0.99359	0.99337	0.99353
45	0.97495	0.98680	1.00274	0.99113	0.98236	0.98318	0.98537	0.99038	0.99068	0.99019	0.99243	0.99262	0.99301	0.99276	0.99329	0.99319	0.99311	0.99344	0.99325	0.99355
46	0.97640	0.98427	0.99908	0.99001	0.98253	0.98418	0.98572	0.99151	0.99978	0.99063	0.99247	0.99262	0.99294	0.99285	0.99304	0.99322	0.99312	0.99343	0.99323	0.99367
47	0.97810	0.98654	0.99350	0.98898	0.98304	0.98510	0.98609	0.99046	0.99152	0.99053	0.99262	0.99262	0.99288	0.99279	0.99320	0.99324	0.99313	0.99337	0.99348	0.99360
48	0.97979	0.98493	0.99365	0.98807	0.98343	0.98582	0.98790	0.98969	0.99173	0.99251	0.99099	0.99276	0.99288	0.99289	0.99324	0.99325	0.99328	0.99347	0.99357	0.99380
49	0.98162	0.98518	0.99226	0.98733	0.98473	0.98766	0.98752	0.99045	0.99258	0.99204	0.99120	0.99285	0.99298	0.99308	0.99329	0.99339	0.99341	0.99354	0.99373	0.99382
50	0.98331	0.98442	0.99276	0.98678	0.98652	0.98766	0.98931	0.99084	0.99196	0.99201	0.99164	0.99288	0.99298	0.99324	0.99331	0.99351	0.99358	0.99370	0.99386	0.99392
51	0.98494	0.98452	0.99309	0.98650	0.98649	0.98853	0.99041	0.99119	0.99242	0.99172	0.99194	0.99299	0.99304	0.99328	0.99340	0.99356	0.99371	0.99369	0.99391	0.99405
52	0.98668	0.98476	0.99316	0.98660	0.98648	0.98954	0.99120	0.99145	0.99207	0.99236	0.99197	0.99307	0.99302	0.99333	0.99344	0.99356	0.99377	0.99382	0.99398	0.99402
53	0.98836	0.98482	0.99313	0.98712	0.98833	0.99002	0.99167	0.99251	0.99186	0.99239	0.99293	0.99219	0.99309	0.99329	0.99343	0.99359	0.99383	0.99380	0.99400	0.99410
54	0.98996	0.98533	0.99269	0.98784	0.98831	0.99076	0.99265	0.99263	0.99217	0.99275	0.99222	0.99310	0.99334	0.99341	0.99354	0.99380	0.99382	0.99398	0.99413	
55	0.99146	0.98639	0.99255	0.98868	0.98903	0.99173	0.99297	0.99354	0.99241	0.99252	0.99249	0.99241	0.99312	0.99331	0.99346	0.99357	0.99385	0.99385	0.99399	0.99410
56	0.99274	0.98685	0.99297	0.98945	0.99012	0.99196	0.99354	0.99418	0.99257	0.99274	0.99232	0.99255	0.99319	0.99332	0.99343	0.99362	0.99385	0.99390	0.99400	0.99414
57	0.99388	0.98705	0.99291	0.99009	0.99134	0.99204	0.99427	0.99266	0.99248	0.99257	0.99255	0.99310	0.99328	0.99345	0.99356	0.99380	0.99387	0.99399	0.99410	
58	0.99495	0.98753	0.99285	0.99051	0.99138	0.99328	0.99454	0.99323	0.99225	0.99247	0.99298	0.99252	0.99318	0.99335	0.99350	0.99369	0.99379	0.99392	0.99404	
59	0.99587	0.98787	0.99292	0.99087	0.99222	0.99349	0.99500	0.99451	0.99321	0.99226	0.99257	0.99269	0.99245	0.99309	0.99323	0.99342	0.99359	0.99372	0.99382	0.99395
60	0.99675	0.98796	0.99308	0.99108	0.99281	0.99385	0.99536	0.99430	0.99356	0.99226	0.99231	0.99250	0.99241	0.99300	0.99310	0.99331	0.99348	0.99362	0.99373	0.99386

Survivor Mortality Improvement Rates (cont'd)

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
61	0.99738	0.98796	0.99342	0.99138	0.99322	0.99448	0.99528	0.99429	0.99385	0.99232	0.99234	0.99226	0.99250	0.99291	0.99307	0.99327	0.99341	0.99358	0.99369	0.99383
62	0.99755	0.98876	0.99385	0.99207	0.99408	0.99559	0.99553	0.99460	0.99409	0.99249	0.99232	0.99249	0.99256	0.99286	0.99313	0.99331	0.99348	0.99362	0.99377	0.99387
63	0.99726	0.99029	0.99501	0.99314	0.99651	0.99636	0.99628	0.99484	0.99415	0.99329	0.99246	0.99268	0.99308	0.99282	0.99328	0.99349	0.99361	0.99376	0.99392	0.99402
64	0.99678	0.99222	0.99592	0.99435	0.99677	0.99771	0.99665	0.99509	0.99454	0.99376	0.99278	0.99305	0.99321	0.99303	0.99349	0.99367	0.99380	0.99393	0.99410	0.99418
65	0.99609	0.99398	0.99711	0.99553	0.99795	0.99886	0.99708	0.99536	0.99468	0.99444	0.99309	0.99316	0.99333	0.99332	0.99366	0.99382	0.99398	0.99409	0.99423	0.99433
66	0.99555	0.99500	0.99779	0.99637	0.99876	0.99955	0.99745	0.99522	0.99486	0.99492	0.99335	0.99333	0.99332	0.99356	0.99377	0.99393	0.99407	0.99421	0.99434	0.99444
67	0.99548	0.99494	0.99828	0.99662	0.99909	0.99983	0.99768	0.99492	0.99517	0.99353	0.99337	0.99330	0.99354	0.99381	0.99400	0.99413	0.99428	0.99441	0.99451	0.99451
68	0.99592	0.99368	0.99862	0.99625	0.99888	0.99982	0.99723	0.99498	0.99510	0.99305	0.99241	0.99334	0.99353	0.99386	0.99402	0.99416	0.99429	0.99443	0.99454	0.99454
69	0.99655	0.99173	0.99854	0.99557	0.99838	0.99939	0.99700	0.99459	0.99506	0.99441	0.99340	0.99357	0.99378	0.99385	0.99401	0.99415	0.99428	0.99441	0.99455	0.99455
70	0.99704	0.98957	0.99851	0.99488	0.99782	0.99896	0.99674	0.99424	0.99486	0.99499	0.99480	0.99343	0.99350	0.99369	0.99370	0.99399	0.99413	0.99427	0.99441	0.99453
71	0.99723	0.98841	0.99863	0.99439	0.99736	0.99858	0.99643	0.99406	0.99451	0.99498	0.99510	0.99351	0.99347	0.99354	0.99380	0.99395	0.99411	0.99424	0.99440	0.99452
72	0.99706	0.98758	0.99876	0.99416	0.99692	0.99826	0.99615	0.99392	0.99414	0.99508	0.99526	0.99359	0.99341	0.99357	0.99381	0.99388	0.99409	0.99423	0.99439	0.99452
73	0.99657	0.98768	0.99868	0.99420	0.99660	0.99790	0.99603	0.99351	0.99408	0.99506	0.99508	0.99414	0.99336	0.99355	0.99391	0.99375	0.99407	0.99424	0.99437	0.99452
74	0.99587	0.98835	0.99853	0.99440	0.99631	0.99764	0.99580	0.99336	0.99374	0.99497	0.99508	0.99447	0.99342	0.99357	0.99385	0.99374	0.99406	0.99422	0.99438	0.99453
75	0.99524	0.98900	0.99856	0.99468	0.99612	0.99743	0.99570	0.99333	0.99352	0.99491	0.99511	0.99494	0.99353	0.99357	0.99381	0.99384	0.99411	0.99425	0.99441	0.99455
76	0.99462	0.98935	0.99883	0.99492	0.99593	0.99724	0.99558	0.99326	0.99344	0.99465	0.99518	0.99529	0.99367	0.99360	0.99372	0.99400	0.99410	0.99428	0.99442	0.99458
77	0.99376	0.98963	0.99880	0.99502	0.99558	0.99698	0.99537	0.99302	0.99321	0.99427	0.99525	0.99542	0.99371	0.99351	0.99370	0.99397	0.99399	0.99423	0.99438	0.99455
78	0.99268	0.98909	0.99904	0.99497	0.99525	0.99667	0.99497	0.99273	0.99259	0.99396	0.99509	0.99511	0.99411	0.99331	0.99352	0.99391	0.99376	0.99410	0.99427	0.99445
79	0.99156	0.98938	0.99914	0.99487	0.99495	0.99635	0.99461	0.99228	0.99214	0.99336	0.99482	0.99493	0.99435	0.99317	0.99335	0.99371	0.99360	0.99396	0.99415	0.99433
80	0.99066	0.98895	0.99966	0.99495	0.99477	0.99620	0.99429	0.99187	0.99170	0.99276	0.99442	0.99470	0.99307	0.99302	0.99310	0.99342	0.99351	0.99379	0.99400	0.99419
81	0.99008	0.98886	0.99998	0.99517	0.99470	0.99621	0.99416	0.99168	0.99145	0.99244	0.99397	0.99463	0.99479	0.99302	0.99299	0.99320	0.99358	0.99367	0.99393	0.99412
82	0.98972	0.98885	1.00055	0.99536	0.99473	0.99615	0.99421	0.99185	0.99156	0.99248	0.99383	0.99488	0.99511	0.99329	0.99312	0.99336	0.99373	0.99371	0.99402	0.99420
83	0.98962	0.98813	1.00122	0.99552	0.99470	0.99617	0.99445	0.99230	0.99216	0.99266	0.99414	0.99529	0.99529	0.99426	0.99348	0.99368	0.99408	0.99392	0.99427	0.99443
84	0.98970	0.98792	1.00194	0.99571	0.99475	0.99624	0.99477	0.99296	0.99278	0.99316	0.99438	0.99568	0.99569	0.99512	0.99397	0.99408	0.99440	0.99427	0.99456	0.99470
85	0.98993	0.98743	1.00287	0.99603	0.99488	0.99638	0.99513	0.99352	0.99336	0.99365	0.99458	0.99592	0.99604	0.99583	0.99439	0.99461	0.99463	0.99480	0.99491	0.99491
86	0.99026	0.98761	1.00339	0.99649	0.99522	0.99667	0.99548	0.99393	0.99376	0.99396	0.99474	0.99587	0.99625	0.99472	0.99460	0.99470	0.99495	0.99491	0.99505	0.99505
87	0.99069	0.98799	1.00401	0.99710	0.99577	0.99713	0.99576	0.99415	0.99395	0.99406	0.99472	0.99570	0.99637	0.99641	0.99493	0.99469	0.99481	0.99506	0.99493	0.99511
88	0.99118	0.98893	1.00397	0.99782	0.99627	0.99764	0.99607	0.99424	0.99394	0.99411	0.99446	0.99548	0.99624	0.99614	0.99534	0.99471	0.99480	0.99507	0.99490	0.99510
89	0.99174	0.98975	1.00426	0.99860	0.99701	0.99823	0.99635	0.99422	0.99388	0.99399	0.99426	0.99509	0.99597	0.99593	0.99553	0.99470	0.99475	0.99499	0.99487	0.99506
90	0.99234	0.99077	1.00440	0.99942	0.99772	0.99882	0.99658	0.99417	0.99374	0.99386	0.99409	0.99473	0.99562	0.99572	0.99559	0.99467	0.99466	0.99485	0.99487	0.99500
91	0.99299	0.99181	1.00450	1.00023	0.99840	0.99942	0.99683	0.99412	0.99362	0.99373	0.99393	0.99447	0.99523	0.99553	0.99555	0.99464	0.99458	0.99470	0.99491	0.99490
92	0.99367	0.99284	1.00458	1.00102	0.99899	1.00004	0.99709	0.99408	0.99354	0.99365	0.99379	0.99424	0.99492	0.99536	0.99545	0.99463	0.99465	0.99488	0.99488	0.99481
93	0.99437	0.99382	1.00467	1.00177	0.99968	1.00051	0.99733	0.99411	0.99351	0.99358	0.99376	0.99403	0.99469	0.99519	0.99521	0.99481	0.99450	0.99461	0.99483	0.99477
94	0.99509	0.99473	1.00476	1.00247	1.00026	1.00103	0.99760	0.99419	0.99353	0.99360	0.99375	0.99395	0.99448	0.99503	0.99507	0.99492	0.99453	0.99460	0.99480	0.99477
95	0.99566	0.99546	1.00483	1.00303	1.00072	1.00143	0.99781	0.99423	0.99355	0.99360	0.99375	0.99392	0.99432	0.99486	0.99498	0.99497	0.99455	0.99459	0.99475	0.99481
96	0.99610	0.99601	1.00489	1.00346	1.00111	1.00172	0.99798	0.99427	0.99356	0.99361	0.99375	0.99390	0.99423	0.99468	0.99490	0.99498	0.99456	0.99458	0.99469	0.99487
97	0.99639	0.99637	1.00492	1.00375	1.00135	1.00188	0.99811	0.99430	0.99356	0.99361	0.99375	0.99387	0.99415	0.99455	0.99474	0.99484	0.99459	0.99459	0.99470	0.99487
98	0.99653	0.99656	1.00494	1.00389	1.00146	1.00201	0.99814	0.99431	0.99357	0.99362	0.99374	0.99388	0.99407	0.99445	0.99475	0.99485	0.99470	0.99459	0.99469	0.99486
99	0.99653	0.99656	1.00495	1.00389	1.00145	1.00201	0.99816	0.99431	0.99358	0.99362	0.99375	0.99387	0.99403	0.99443	0.99475	0.99485	0.99476	0.99460	0.99469	0.99485
100	0.99653	0.99656	1.00495	1.00389	1.00145	1.00201	0.99816	0.99431	0.99357	0.99362	0.99374	0.99386	0.99401	0.99427	0.99461	0.99473	0.99479	0.99462	0.99469	0.99482
101	0.99653	0.99655	1.00495	1.00389	1.00143	1.00202	0.99816	0.99431	0.99357	0.99362	0.99374	0.99386	0.99399	0.99422	0.99451	0.99469	0.99479	0.99463	0.99468	0.99479
102	0.99653	0.99655	1.00496	1.00389	1.00143	1.00202	0.99814	0.99433	0.99358	0.99362	0.99374	0.99386	0.99398	0.99418	0.99444	0.99465	0.99477	0.99464	0.99468	0.99479
103	0.99653	0.99655	1.00496	1.00389	1.00118	1.00202	0.99815	0.99432	0.99357	0.99362	0.99374	0.99385	0.99398	0.99413	0.99438	0.99460	0.99470	0.99469	0.99468	0.99479
104	0.99653	0.99655	1.00497	1.00389	1.00143	1.00201	0.99815	0.99432	0.99357	0.99362	0.99374	0.99385	0.99398	0.99411	0.99432	0.99450	0.99466	0.99472	0.99469	0.99478
105	0.99653	0.99655	1.00497	1.00389	1.00143	1.00201	0.99815	0.99432	0.99358	0.99362	0.99374	0.99385	0.99397	0.99410	0.99428	0.99450	0.99462	0.99472	0.99469	0.99478
106	0.99653	0.99654	1.00497	1.00389	1.00057	1.00200	0.99815	0.99432	0.99358	0.99362	0.99374	0.99385	0.99397	0.99410	0.99426	0.99444	0.99459	0.99471	0.99469	0.99477
107	0.99653	0.99654	1.00498	1.00389	1.00083	1.00200	0.99816	0.99432	0.99358	0.99362	0.99374	0.99385	0.99397	0.99409	0.99423	0.99441	0.99457	0.99468	0.99470	0.99477
108	0.99653	0.99654	1.00498	1.00389	1.00045	1.00193	0.99815	0.99433	0.99357	0.99362	0.99374	0.99385	0.99397	0.99409	0.99422	0.99438	0.99453			

APPENDIX K

PROJECTIONS INCLUDING RESERVISTS (100 YEARS)

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**TOTAL ACTIVE DUTY PERSONNEL ON SEPTEMBER 30
OF EACH FISCAL YEAR**

Fiscal Year	Officers	Enlisted	Total
2001	229,846	1,207,792	1,437,638
2002	230,375	1,212,229	1,442,604
2003	230,598	1,214,486	1,445,084
2004	230,696	1,212,448	1,443,144
2005	231,840	1,213,695	1,445,535
2006	232,618	1,215,115	1,447,733
2007	233,376	1,217,135	1,450,511
2008	233,376	1,217,135	1,450,511
2009	233,376	1,217,135	1,450,511
2010	233,376	1,217,135	1,450,511
2011	233,376	1,217,135	1,450,511
2012	233,376	1,217,135	1,450,511
2013	233,376	1,217,135	1,450,511
2014	233,376	1,217,135	1,450,511
2015	233,376	1,217,135	1,450,511
2016	233,376	1,217,135	1,450,511
2017	233,376	1,217,135	1,450,511
2018	233,376	1,217,135	1,450,511
2019	233,376	1,217,135	1,450,511
2020	233,376	1,217,135	1,450,511
2021	233,376	1,217,135	1,450,511
2022	233,376	1,217,135	1,450,511
2023	233,376	1,217,135	1,450,511
2024	233,376	1,217,135	1,450,511
2025	233,376	1,217,135	1,450,511
2026	233,376	1,217,135	1,450,511
2027	233,376	1,217,135	1,450,511
2028	233,376	1,217,135	1,450,511
2029	233,376	1,217,135	1,450,511
2030	233,376	1,217,135	1,450,511
2031	233,376	1,217,135	1,450,511
2032	233,376	1,217,135	1,450,511
2033	233,376	1,217,135	1,450,511
2034	233,376	1,217,135	1,450,511
2035	233,376	1,217,135	1,450,511
2036	233,376	1,217,135	1,450,511
2037	233,376	1,217,135	1,450,511
2038	233,376	1,217,135	1,450,511
2039	233,376	1,217,135	1,450,511
2040	233,376	1,217,135	1,450,511
2041	233,376	1,217,135	1,450,511
2042	233,376	1,217,135	1,450,511
2043	233,376	1,217,135	1,450,511
2044	233,376	1,217,135	1,450,511
2045	233,376	1,217,135	1,450,511
2046	233,376	1,217,135	1,450,511
2047	233,376	1,217,135	1,450,511
2048	233,376	1,217,135	1,450,511
2049	233,376	1,217,135	1,450,511
2050	233,376	1,217,135	1,450,511

*Future mortality improvement is assumed.

**TOTAL ACTIVE DUTY PERSONNEL ON SEPTEMBER 30
OF EACH FISCAL YEAR (continued)**

<u>Fiscal Year</u>	<u>Officers</u>	<u>Enlisted</u>	<u>Total</u>
2051	233,376	1,217,135	1,450,511
2052	233,376	1,217,135	1,450,511
2053	233,376	1,217,135	1,450,511
2054	233,376	1,217,135	1,450,511
2055	233,376	1,217,135	1,450,511
2056	233,376	1,217,135	1,450,511
2057	233,376	1,217,135	1,450,511
2058	233,376	1,217,135	1,450,511
2059	233,376	1,217,135	1,450,511
2060	233,376	1,217,135	1,450,511
2061	233,376	1,217,135	1,450,511
2062	233,376	1,217,135	1,450,511
2063	233,376	1,217,135	1,450,511
2064	233,376	1,217,135	1,450,511
2065	233,376	1,217,135	1,450,511
2066	233,376	1,217,135	1,450,511
2067	233,376	1,217,135	1,450,511
2068	233,376	1,217,135	1,450,511
2069	233,376	1,217,135	1,450,511
2070	233,376	1,217,135	1,450,511
2071	233,376	1,217,135	1,450,511
2072	233,376	1,217,135	1,450,511
2073	233,376	1,217,135	1,450,511
2074	233,376	1,217,135	1,450,511
2075	233,376	1,217,135	1,450,511
2076	233,376	1,217,135	1,450,511
2077	233,376	1,217,135	1,450,511
2078	233,376	1,217,135	1,450,511
2079	233,376	1,217,135	1,450,511
2080	233,376	1,217,135	1,450,511
2081	233,376	1,217,135	1,450,511
2082	233,376	1,217,135	1,450,511
2083	233,376	1,217,135	1,450,511
2084	233,376	1,217,135	1,450,511
2085	233,376	1,217,135	1,450,511
2086	233,376	1,217,135	1,450,511
2087	233,376	1,217,135	1,450,511
2088	233,376	1,217,135	1,450,511
2089	233,376	1,217,135	1,450,511
2090	233,376	1,217,135	1,450,511
2091	233,376	1,217,135	1,450,511
2092	233,376	1,217,135	1,450,511
2093	233,376	1,217,135	1,450,511
2094	233,376	1,217,135	1,450,511
2095	233,376	1,217,135	1,450,511
2096	233,376	1,217,135	1,450,511
2097	233,376	1,217,135	1,450,511
2098	233,376	1,217,135	1,450,511
2099	233,376	1,217,135	1,450,511
2100	233,376	1,217,135	1,450,511

*Future mortality improvement is assumed.

TOTAL ACTIVE DUTY GROSS PAY FOR EACH FISCAL YEAR

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>Officer</u>	<u>Enlisted</u>	<u>Total</u>
2002	\$11,844,103	\$26,660,934	\$38,505,037
2003	\$12,242,490	\$27,401,934	\$39,644,424
2004	\$12,562,839	\$27,913,466	\$40,476,304
2005	\$12,904,116	\$28,409,157	\$41,313,274
2006	\$13,266,709	\$28,987,654	\$42,254,363
2007	\$13,635,272	\$29,649,251	\$43,284,523
2008	\$14,006,140	\$30,379,216	\$44,385,356
2009	\$14,374,429	\$31,165,050	\$45,539,479
2010	\$14,753,575	\$32,003,483	\$46,757,059
2011	\$15,151,218	\$32,905,219	\$48,056,437
2012	\$15,576,851	\$33,897,842	\$49,474,693
2013	\$16,013,240	\$34,938,054	\$50,951,294
2014	\$16,469,462	\$36,037,455	\$52,506,917
2015	\$16,950,632	\$37,204,549	\$54,155,180
2016	\$17,454,424	\$38,417,203	\$55,871,627
2017	\$17,978,278	\$39,642,064	\$57,620,342
2018	\$18,518,085	\$40,884,201	\$59,402,286
2019	\$19,081,130	\$42,182,201	\$61,263,331
2020	\$19,672,390	\$43,542,934	\$63,215,324
2021	\$20,297,312	\$44,948,950	\$65,246,262
2022	\$20,954,154	\$46,415,620	\$67,369,773
2023	\$21,635,092	\$47,968,285	\$69,603,377
2024	\$22,347,946	\$49,596,095	\$71,944,041
2025	\$23,092,889	\$51,291,502	\$74,384,391
2026	\$23,864,812	\$53,044,190	\$76,909,002
2027	\$24,663,865	\$54,851,772	\$79,515,637
2028	\$25,493,378	\$56,723,738	\$82,217,116
2029	\$26,357,344	\$58,671,531	\$85,028,876
2030	\$27,253,261	\$60,692,845	\$87,946,106
2031	\$28,182,932	\$62,787,511	\$90,970,443
2032	\$29,144,851	\$64,960,237	\$94,105,088
2033	\$30,134,906	\$67,214,389	\$97,349,295
2034	\$31,160,433	\$69,551,352	\$100,711,785
2035	\$32,223,777	\$71,974,960	\$104,198,737
2036	\$33,325,223	\$74,486,014	\$107,811,237
2037	\$34,466,567	\$77,085,135	\$111,551,702
2038	\$35,649,136	\$79,775,908	\$115,425,043
2039	\$36,878,931	\$82,564,268	\$119,443,199
2040	\$38,156,553	\$85,453,909	\$123,610,463
2041	\$39,485,567	\$88,447,634	\$127,933,200
2042	\$40,867,710	\$91,548,165	\$132,415,875
2043	\$42,300,531	\$94,758,118	\$137,058,650
2044	\$43,786,487	\$98,081,842	\$141,868,329
2045	\$45,328,128	\$101,523,077	\$146,851,205
2046	\$46,926,224	\$105,084,365	\$152,010,589
2047	\$48,581,488	\$108,768,735	\$157,350,223
2048	\$50,295,795	\$112,581,024	\$162,876,818
2049	\$52,071,663	\$116,526,394	\$168,598,057
2050	\$53,910,100	\$120,609,120	\$174,519,220
2051	\$55,812,551	\$124,833,703	\$180,646,254

*Future mortality improvement is assumed.

TOTAL ACTIVE DUTY GROSS PAY FOR EACH FISCAL YEAR (continued)

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>Officer</u>	<u>Enlisted</u>	<u>Total</u>
2052	\$57,779,754	\$129,205,143	\$186,984,896
2053	\$59,811,242	\$133,728,427	\$193,539,669
2054	\$61,910,500	\$138,409,258	\$200,319,758
2055	\$64,080,802	\$143,253,540	\$207,334,342
2056	\$66,324,201	\$148,266,902	\$214,591,103
2057	\$68,642,873	\$153,455,065	\$222,097,938
2058	\$71,039,466	\$158,824,347	\$229,863,813
2059	\$73,518,339	\$164,381,541	\$237,899,880
2060	\$76,082,746	\$170,133,403	\$246,216,149
2061	\$78,736,421	\$176,086,832	\$254,823,252
2062	\$81,483,231	\$182,248,979	\$263,732,210
2063	\$84,326,050	\$188,627,163	\$272,953,213
2064	\$87,268,867	\$195,229,076	\$282,497,943
2065	\$90,315,929	\$202,062,635	\$292,378,564
2066	\$93,471,166	\$209,135,817	\$302,606,983
2067	\$96,738,349	\$216,456,820	\$313,195,169
2068	\$100,121,513	\$224,034,320	\$324,155,834
2069	\$103,625,405	\$231,877,358	\$335,502,762
2070	\$107,254,168	\$239,995,146	\$347,249,314
2071	\$111,011,997	\$248,397,200	\$359,409,196
2072	\$114,903,016	\$257,093,416	\$371,996,432
2073	\$118,930,867	\$266,094,008	\$385,024,875
2074	\$123,100,129	\$275,409,601	\$398,509,730
2075	\$127,415,695	\$285,051,219	\$412,466,913
2076	\$131,882,335	\$295,030,222	\$426,912,558
2077	\$136,504,811	\$305,358,346	\$441,863,156
2078	\$141,288,115	\$316,047,799	\$457,335,914
2079	\$146,237,905	\$327,111,266	\$473,349,171
2080	\$151,359,898	\$338,561,849	\$489,921,747
2081	\$156,660,026	\$350,413,064	\$507,073,090
2082	\$162,144,518	\$362,678,912	\$524,823,429
2083	\$167,819,649	\$375,373,940	\$543,193,589
2084	\$173,692,219	\$388,513,221	\$562,205,440
2085	\$179,769,406	\$402,112,349	\$581,881,755
2086	\$186,058,574	\$416,187,435	\$602,246,008
2087	\$192,567,271	\$430,755,143	\$623,322,414
2088	\$199,303,353	\$445,832,739	\$645,136,091
2089	\$206,275,223	\$461,438,102	\$667,713,325
2090	\$213,491,435	\$477,589,718	\$691,081,153
2091	\$220,960,754	\$494,306,709	\$715,267,463
2092	\$228,692,206	\$511,608,873	\$740,301,078
2093	\$236,694,915	\$529,516,690	\$766,211,605
2094	\$244,978,432	\$548,051,361	\$793,029,793
2095	\$253,552,686	\$567,234,830	\$820,787,516
2096	\$262,427,873	\$587,089,802	\$849,517,675
2097	\$271,614,430	\$607,639,771	\$879,254,201
2098	\$281,123,099	\$628,909,059	\$910,032,158
2099	\$290,965,095	\$650,922,849	\$941,887,943
2100	\$301,151,980	\$673,707,203	\$974,859,182

*Future mortality improvement is assumed.

NONRETIRED RESERVISTS

(Dollar Amounts in Thousands)

Fiscal Year	People at Year End			Dollars During Year		
	Officers	Enlisted	Total	Officers	Enlisted	Total
2002	121,030	675,724	796,754	\$1,357,500	\$2,965,215	\$4,322,715
2003	121,768	675,406	797,174	\$1,419,309	\$3,061,798	\$4,481,107
2004	122,541	675,673	798,214	\$1,465,424	\$3,156,730	\$4,622,155
2005	121,744	673,379	795,123	\$1,508,460	\$3,253,144	\$4,761,604
2006	121,228	670,997	792,225	\$1,545,018	\$3,346,391	\$4,891,409
2007	121,052	671,195	792,247	\$1,585,651	\$3,444,424	\$5,030,075
2008	121,052	671,195	792,247	\$1,631,593	\$3,550,792	\$5,182,385
2009	121,052	671,195	792,247	\$1,681,873	\$3,662,161	\$5,344,034
2010	121,052	671,195	792,247	\$1,735,237	\$3,779,258	\$5,514,494
2011	121,052	671,195	792,247	\$1,791,362	\$3,901,997	\$5,693,359
2012	121,052	671,195	792,247	\$1,851,857	\$4,034,066	\$5,885,923
2013	121,052	671,195	792,247	\$1,914,869	\$4,171,653	\$6,086,521
2014	121,052	671,195	792,247	\$1,980,467	\$4,315,003	\$6,295,470
2015	121,052	671,195	792,247	\$2,048,661	\$4,463,898	\$6,512,559
2016	121,052	671,195	792,247	\$2,119,406	\$4,617,926	\$6,737,332
2017	121,052	671,195	792,247	\$2,192,820	\$4,777,206	\$6,970,026
2018	121,052	671,195	792,247	\$2,268,936	\$4,942,070	\$7,211,006
2019	121,052	671,195	792,247	\$2,347,779	\$5,112,607	\$7,460,386
2020	121,052	671,195	792,247	\$2,429,264	\$5,288,538	\$7,717,802
2021	121,052	671,195	792,247	\$2,513,399	\$5,469,896	\$7,983,295
2022	121,052	671,195	792,247	\$2,600,343	\$5,657,160	\$8,257,504
2023	121,052	671,195	792,247	\$2,690,273	\$5,850,786	\$8,541,059
2024	121,052	671,195	792,247	\$2,783,388	\$6,051,503	\$8,834,890
2025	121,052	671,195	792,247	\$2,880,089	\$6,260,109	\$9,140,197
2026	121,052	671,195	792,247	\$2,980,549	\$6,477,070	\$9,457,620
2027	121,052	671,195	792,247	\$3,084,803	\$6,702,557	\$9,787,360
2028	121,052	671,195	792,247	\$3,192,950	\$6,936,652	\$10,129,602
2029	121,052	671,195	792,247	\$3,305,092	\$7,179,384	\$10,484,475
2030	121,052	671,195	792,247	\$3,421,281	\$7,430,843	\$10,852,124
2031	121,052	671,195	792,247	\$3,541,629	\$7,691,399	\$11,233,028
2032	121,052	671,195	792,247	\$3,666,275	\$7,961,649	\$11,627,924
2033	121,052	671,195	792,247	\$3,795,227	\$8,241,911	\$12,037,138
2034	121,052	671,195	792,247	\$3,928,569	\$8,532,090	\$12,460,659
2035	121,052	671,195	792,247	\$4,066,457	\$8,832,214	\$12,898,671
2036	121,052	671,195	792,247	\$4,209,062	\$9,142,586	\$13,351,648
2037	121,052	671,195	792,247	\$4,356,554	\$9,463,599	\$13,820,153
2038	121,052	671,195	792,247	\$4,509,086	\$9,795,610	\$14,304,696
2039	121,052	671,195	792,247	\$4,666,825	\$10,139,028	\$14,805,854
2040	121,052	671,195	792,247	\$4,829,994	\$10,494,285	\$15,324,279
2041	121,052	671,195	792,247	\$4,998,853	\$10,861,817	\$15,860,670
2042	121,052	671,195	792,247	\$5,173,648	\$11,242,062	\$16,415,710
2043	121,052	671,195	792,247	\$5,354,592	\$11,635,512	\$16,990,104
2044	121,052	671,195	792,247	\$5,541,891	\$12,042,728	\$17,584,619
2045	121,052	671,195	792,247	\$5,735,764	\$12,464,229	\$18,199,993
2046	121,052	671,195	792,247	\$5,936,439	\$12,900,469	\$18,836,909
2047	121,052	671,195	792,247	\$6,144,155	\$13,351,944	\$19,496,099
2048	121,052	671,195	792,247	\$6,359,156	\$13,819,200	\$20,178,356
2049	121,052	671,195	792,247	\$6,581,695	\$14,302,794	\$20,884,488
2050	121,052	671,195	792,247	\$6,812,033	\$14,803,301	\$21,615,334
2051	121,052	671,195	792,247	\$7,050,440	\$15,321,323	\$22,371,763

*This projection includes reservists.

NONRETIRED RESERVISTS (continued)

(Dollar Amounts in Thousands)

Fiscal Year	People at Year End			Dollars During Year		
	Officers	Enlisted	Total	Officers	Enlisted	Total
2052	121,052	671,195	792,247	\$7,297,198	\$15,857,476	\$23,154,675
2053	121,052	671,195	792,247	\$7,552,598	\$16,412,398	\$23,964,996
2054	121,052	671,195	792,247	\$7,816,939	\$16,986,747	\$24,803,686
2055	121,052	671,195	792,247	\$8,090,536	\$17,581,204	\$25,671,739
2056	121,052	671,195	792,247	\$8,373,710	\$18,196,472	\$26,570,183
2057	121,052	671,195	792,247	\$8,666,797	\$18,833,283	\$27,500,080
2058	121,052	671,195	792,247	\$8,970,144	\$19,492,389	\$28,462,533
2059	121,052	671,195	792,247	\$9,284,109	\$20,174,571	\$29,458,679
2060	121,052	671,195	792,247	\$9,609,062	\$20,880,638	\$30,489,700
2061	121,052	671,195	792,247	\$9,945,390	\$21,611,424	\$31,556,814
2062	121,052	671,195	792,247	\$10,293,489	\$22,367,796	\$32,661,285
2063	121,052	671,195	792,247	\$10,653,771	\$23,150,648	\$33,804,420
2064	121,052	671,195	792,247	\$11,026,663	\$23,960,907	\$34,987,570
2065	121,052	671,195	792,247	\$11,412,605	\$24,799,530	\$36,212,136
2066	121,052	671,195	792,247	\$11,812,054	\$25,667,512	\$37,479,566
2067	121,052	671,195	792,247	\$12,225,482	\$26,565,878	\$38,791,360
2068	121,052	671,195	792,247	\$12,653,377	\$27,495,691	\$40,149,069
2069	121,052	671,195	792,247	\$13,096,248	\$28,458,051	\$41,554,299
2070	121,052	671,195	792,247	\$13,554,618	\$29,454,095	\$43,008,713
2071	121,052	671,195	792,247	\$14,029,029	\$30,485,002	\$44,514,031
2072	121,052	671,195	792,247	\$14,520,043	\$31,551,991	\$46,072,034
2073	121,052	671,195	792,247	\$15,028,242	\$32,656,325	\$47,684,567
2074	121,052	671,195	792,247	\$15,554,228	\$33,799,310	\$49,353,537
2075	121,052	671,195	792,247	\$16,098,623	\$34,982,298	\$51,080,921
2076	121,052	671,195	792,247	\$16,662,072	\$36,206,690	\$52,868,761
2077	121,052	671,195	792,247	\$17,245,241	\$37,473,933	\$54,719,175
2078	121,052	671,195	792,247	\$17,848,822	\$38,785,529	\$56,634,351
2079	121,052	671,195	792,247	\$18,473,529	\$40,143,029	\$58,616,558
2080	121,052	671,195	792,247	\$19,120,101	\$41,548,040	\$60,668,141
2081	121,052	671,195	792,247	\$19,789,304	\$43,002,225	\$62,791,529
2082	121,052	671,195	792,247	\$20,481,929	\$44,507,306	\$64,989,235
2083	121,052	671,195	792,247	\$21,198,796	\$46,065,063	\$67,263,859
2084	121,052	671,195	792,247	\$21,940,754	\$47,677,341	\$69,618,096
2085	121,052	671,195	792,247	\$22,708,681	\$49,346,049	\$72,054,730
2086	121,052	671,195	792,247	\$23,503,485	\$51,073,161	\$74,576,646
2087	121,052	671,195	792,247	\$24,326,107	\$52,860,722	\$77,186,829
2088	121,052	671,195	792,247	\$25,177,521	\$54,710,847	\$79,888,368
2089	121,052	671,195	792,247	\$26,058,735	\$56,625,726	\$82,684,461
2090	121,052	671,195	792,247	\$26,970,791	\$58,607,626	\$85,578,417
2091	121,052	671,195	792,247	\$27,914,769	\$60,658,893	\$88,573,662
2092	121,052	671,195	792,247	\$28,891,787	\$62,781,954	\$91,673,740
2093	121,052	671,195	792,247	\$29,903,000	\$64,979,322	\$94,882,322
2094	121,052	671,195	792,247	\$30,949,605	\$67,253,598	\$98,203,203
2095	121,052	671,195	792,247	\$32,032,841	\$69,607,474	\$101,640,316
2096	121,052	671,195	792,247	\$33,153,991	\$72,043,736	\$105,197,727
2097	121,052	671,195	792,247	\$34,314,381	\$74,565,268	\$108,879,649
2098	121,052	671,195	792,247	\$35,515,384	\$77,175,053	\$112,690,437
2099	121,052	671,195	792,247	\$36,758,423	\$79,876,180	\$116,634,604
2100	121,052	671,195	792,247	\$38,044,968	\$82,671,848	\$120,716,816

*This projection includes reservists.

TOTAL NUMBER OF RETIREES ON SEPTEMBER 30 OF EACH FISCAL YEAR

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2001	480,421	1,138,598	1,619,019	27,556	70,850	98,406	1,717,425
2002	481,504	1,150,381	1,631,885	26,400	69,316	95,716	1,727,601
2003	482,601	1,162,797	1,645,398	25,258	67,889	93,147	1,738,544
2004	483,470	1,175,829	1,659,299	24,133	66,526	90,659	1,749,958
2005	484,076	1,188,200	1,672,276	23,036	65,192	88,227	1,760,503
2006	485,738	1,201,547	1,687,286	21,971	63,865	85,836	1,773,122
2007	488,317	1,214,824	1,703,141	20,946	62,533	83,478	1,786,620
2008	489,837	1,224,286	1,714,123	19,969	61,190	81,159	1,795,282
2009	490,136	1,230,657	1,720,792	19,048	59,853	78,901	1,799,694
2010	489,281	1,233,668	1,722,949	18,186	58,523	76,709	1,799,658
2011	487,650	1,233,423	1,721,073	17,386	57,201	74,587	1,795,660
2012	485,732	1,231,796	1,717,528	16,655	55,904	72,558	1,790,087
2013	483,569	1,228,430	1,711,999	15,991	54,631	70,622	1,782,621
2014	481,117	1,223,179	1,704,296	15,393	53,382	68,775	1,773,071
2015	478,523	1,216,963	1,695,486	14,858	52,161	67,019	1,762,505
2016	475,833	1,211,286	1,687,118	14,384	50,983	65,367	1,752,485
2017	473,145	1,206,678	1,679,823	13,963	49,856	63,818	1,743,641
2018	470,509	1,201,935	1,672,445	13,591	48,768	62,359	1,734,803
2019	467,891	1,196,735	1,664,626	13,261	47,711	60,972	1,725,598
2020	465,467	1,192,047	1,657,514	12,968	46,693	59,661	1,717,175
2021	463,075	1,187,804	1,650,880	12,703	45,716	58,420	1,709,300
2022	461,225	1,184,632	1,645,857	12,468	44,786	57,254	1,703,111
2023	459,639	1,181,822	1,641,461	12,256	43,897	56,153	1,697,614
2024	458,118	1,178,892	1,637,011	12,063	43,046	55,109	1,692,120
2025	456,579	1,175,894	1,632,474	11,886	42,236	54,122	1,686,596
2026	455,011	1,172,928	1,627,940	11,723	41,466	53,189	1,681,128
2027	453,403	1,169,945	1,623,348	11,573	40,731	52,304	1,675,652
2028	451,665	1,166,805	1,618,470	11,431	40,030	51,461	1,669,931
2029	449,836	1,163,684	1,613,519	11,299	39,362	50,661	1,664,181
2030	447,957	1,160,589	1,608,546	11,175	38,727	49,902	1,658,448
2031	445,950	1,157,312	1,603,262	11,058	38,124	49,182	1,652,444
2032	443,940	1,153,818	1,597,758	10,950	37,553	48,502	1,646,260
2033	441,939	1,150,210	1,592,149	10,848	37,013	47,862	1,640,011
2034	439,938	1,146,575	1,586,514	10,754	36,506	47,260	1,633,773
2035	437,981	1,142,974	1,580,955	10,666	36,030	46,696	1,627,651
2036	436,050	1,139,442	1,575,492	10,585	35,586	46,172	1,621,664
2037	434,221	1,136,034	1,570,255	10,512	35,175	45,686	1,615,942
2038	432,483	1,132,709	1,565,192	10,445	34,795	45,240	1,610,432
2039	430,862	1,129,442	1,560,304	10,385	34,445	44,830	1,605,134
2040	429,357	1,126,265	1,555,622	10,332	34,124	44,457	1,600,079
2041	427,913	1,123,172	1,551,085	10,286	33,833	44,118	1,595,203
2042	426,593	1,120,217	1,546,810	10,245	33,568	43,814	1,590,624
2043	425,406	1,117,383	1,542,789	10,211	33,331	43,542	1,586,331
2044	424,352	1,114,664	1,539,015	10,183	33,119	43,302	1,582,317
2045	423,442	1,112,110	1,535,552	10,159	32,932	43,091	1,578,643
2046	422,671	1,109,756	1,532,427	10,140	32,768	42,908	1,575,335
2047	422,038	1,107,626	1,529,664	10,124	32,626	42,750	1,572,414
2048	421,534	1,105,738	1,527,272	10,112	32,504	42,616	1,569,888
2049	421,152	1,104,126	1,525,278	10,103	32,400	42,504	1,567,782
2050	420,894	1,102,823	1,523,717	10,097	32,314	42,411	1,566,128

*This projection includes reservists.

**Future mortality improvement is assumed.

TOTAL NUMBER OF RETIREES ON SEPTEMBER 30 OF EACH FISCAL YEAR (continued)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2051	420,741	1,101,829	1,522,570	10,093	32,242	42,335	1,564,905
2052	420,710	1,101,169	1,521,879	10,091	32,184	42,275	1,564,154
2053	420,792	1,100,856	1,521,648	10,091	32,137	42,228	1,563,877
2054	420,977	1,100,892	1,521,869	10,092	32,102	42,194	1,564,063
2055	421,264	1,101,277	1,522,541	10,095	32,075	42,170	1,564,711
2056	421,642	1,101,994	1,523,636	10,099	32,055	42,155	1,565,791
2057	422,111	1,103,033	1,525,144	10,104	32,042	42,147	1,567,291
2058	422,663	1,104,373	1,527,036	10,110	32,035	42,145	1,569,181
2059	423,290	1,105,989	1,529,279	10,117	32,031	42,148	1,571,427
2060	423,986	1,107,850	1,531,836	10,123	32,031	42,154	1,573,991
2061	424,735	1,109,917	1,534,652	10,130	32,033	42,163	1,576,815
2062	425,531	1,112,154	1,537,685	10,137	32,037	42,174	1,579,859
2063	426,364	1,114,522	1,540,886	10,144	32,042	42,186	1,583,072
2064	427,221	1,116,984	1,544,205	10,150	32,047	42,198	1,586,402
2065	428,090	1,119,505	1,547,595	10,156	32,053	42,209	1,589,804
2066	428,959	1,122,051	1,551,009	10,161	32,059	42,220	1,593,229
2067	429,818	1,124,594	1,554,413	10,165	32,064	42,229	1,596,642
2068	430,659	1,127,112	1,557,770	10,169	32,069	42,237	1,600,008
2069	431,473	1,129,584	1,561,057	10,171	32,073	42,244	1,603,301
2070	432,256	1,131,999	1,564,256	10,173	32,077	42,249	1,606,505
2071	433,004	1,134,344	1,567,348	10,174	32,079	42,253	1,609,601
2072	433,718	1,136,612	1,570,331	10,174	32,082	42,256	1,612,587
2073	434,399	1,138,805	1,573,204	10,174	32,084	42,258	1,615,462
2074	435,049	1,140,921	1,575,970	10,173	32,085	42,259	1,618,229
2075	435,671	1,142,967	1,578,637	10,173	32,086	42,259	1,620,896
2076	436,269	1,144,944	1,581,212	10,172	32,087	42,259	1,623,471
2077	436,848	1,146,861	1,583,708	10,171	32,088	42,259	1,625,967
2078	437,413	1,148,725	1,586,138	10,170	32,088	42,258	1,628,396
2079	437,969	1,150,544	1,588,514	10,169	32,089	42,258	1,630,771
2080	438,521	1,152,328	1,590,849	10,169	32,089	42,257	1,633,106
2081	439,068	1,154,067	1,593,135	10,168	32,089	42,257	1,635,392
2082	439,614	1,155,771	1,595,385	10,168	32,090	42,258	1,637,643
2083	440,162	1,157,446	1,597,608	10,168	32,090	42,258	1,639,867
2084	440,714	1,159,098	1,599,811	10,169	32,090	42,259	1,642,070
2085	441,269	1,160,730	1,601,998	10,169	32,091	42,260	1,644,258
2086	441,828	1,162,347	1,604,175	10,170	32,092	42,261	1,646,436
2087	442,391	1,163,953	1,606,344	10,170	32,092	42,263	1,648,606
2088	442,957	1,165,548	1,608,505	10,171	32,093	42,264	1,650,769
2089	443,525	1,167,135	1,610,659	10,172	32,093	42,265	1,652,925
2090	444,093	1,168,713	1,612,806	10,172	32,094	42,267	1,655,073
2091	444,660	1,170,287	1,614,946	10,173	32,095	42,268	1,657,214
2092	445,225	1,171,855	1,617,080	10,174	32,095	42,269	1,659,349
2093	445,788	1,173,416	1,619,204	10,174	32,096	42,270	1,661,474
2094	446,346	1,174,973	1,621,319	10,174	32,096	42,271	1,663,590
2095	446,901	1,176,523	1,623,423	10,175	32,097	42,272	1,665,695
2096	447,449	1,178,066	1,625,516	10,175	32,097	42,272	1,667,788
2097	447,993	1,179,604	1,627,597	10,175	32,098	42,273	1,669,870
2098	448,531	1,181,135	1,629,666	10,175	32,098	42,273	1,671,939
2099	449,064	1,182,661	1,631,725	10,175	32,099	42,273	1,673,998
2100	449,592	1,184,180	1,633,773	10,174	32,099	42,274	1,676,046

*This projection includes reservists.

**Future mortality improvement is assumed.

TOTAL ANNUAL RETIRED PAY FOR EACH FISCAL YEAR

(Dollar Amounts in Thousands)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2002	\$14,605,030	\$17,311,922	\$31,916,952	\$678,473	\$601,800	\$1,280,273	\$33,197,225
2003	\$14,953,681	\$17,828,655	\$32,782,336	\$659,605	\$599,449	\$1,259,054	\$34,041,390
2004	\$15,317,204	\$18,391,788	\$33,708,992	\$640,862	\$597,909	\$1,238,771	\$34,947,763
2005	\$15,709,985	\$19,001,982	\$34,711,966	\$622,750	\$597,447	\$1,220,197	\$35,932,163
2006	\$16,133,831	\$19,651,975	\$35,785,807	\$604,931	\$597,356	\$1,202,287	\$36,988,094
2007	\$16,584,928	\$20,316,257	\$36,901,184	\$587,135	\$597,006	\$1,184,141	\$38,085,325
2008	\$17,039,173	\$20,958,677	\$37,997,850	\$569,513	\$596,458	\$1,165,971	\$39,163,821
2009	\$17,545,799	\$21,648,320	\$39,194,119	\$560,664	\$599,156	\$1,159,820	\$40,353,939
2010	\$17,974,619	\$22,236,145	\$40,210,764	\$543,805	\$598,160	\$1,141,965	\$41,352,729
2011	\$18,470,563	\$22,889,779	\$41,360,342	\$530,238	\$599,656	\$1,129,894	\$42,490,236
2012	\$18,992,142	\$23,558,276	\$42,550,418	\$518,425	\$601,875	\$1,120,300	\$43,670,718
2013	\$19,519,530	\$24,216,696	\$43,736,226	\$507,908	\$604,167	\$1,112,075	\$44,848,301
2014	\$20,050,777	\$24,858,816	\$44,909,593	\$498,836	\$606,508	\$1,105,344	\$46,014,937
2015	\$20,587,097	\$25,487,279	\$46,074,376	\$491,314	\$608,948	\$1,100,262	\$47,174,638
2016	\$21,129,381	\$26,121,670	\$47,251,051	\$485,418	\$611,698	\$1,097,116	\$48,348,167
2017	\$21,681,622	\$26,782,671	\$48,464,293	\$481,165	\$615,023	\$1,096,188	\$49,560,481
2018	\$22,246,264	\$27,463,020	\$49,709,284	\$478,544	\$618,884	\$1,097,429	\$50,806,713
2019	\$22,822,555	\$28,148,491	\$50,971,047	\$477,461	\$623,141	\$1,100,602	\$52,071,649
2020	\$23,407,266	\$28,841,253	\$52,248,520	\$477,791	\$627,815	\$1,105,606	\$53,354,126
2021	\$23,998,048	\$29,555,060	\$53,553,107	\$479,335	\$633,048	\$1,112,382	\$54,665,489
2022	\$24,604,908	\$30,287,797	\$54,892,705	\$482,152	\$638,856	\$1,121,009	\$56,013,714
2023	\$25,233,014	\$31,035,839	\$56,268,853	\$486,031	\$645,241	\$1,131,272	\$57,400,125
2024	\$25,876,028	\$31,797,356	\$57,673,384	\$490,916	\$652,280	\$1,143,197	\$58,816,581
2025	\$26,532,106	\$32,573,545	\$59,105,651	\$496,701	\$660,056	\$1,156,757	\$60,262,408
2026	\$27,202,084	\$33,371,347	\$60,573,431	\$503,429	\$668,642	\$1,172,071	\$61,745,502
2027	\$27,892,082	\$34,195,608	\$62,087,691	\$510,992	\$678,069	\$1,189,060	\$63,276,751
2028	\$28,675,015	\$35,041,489	\$63,716,505	\$519,358	\$688,317	\$1,207,675	\$64,924,180
2029	\$29,469,015	\$35,907,155	\$65,376,171	\$528,525	\$699,360	\$1,227,885	\$66,604,056
2030	\$30,275,856	\$36,923,828	\$67,199,685	\$538,460	\$711,259	\$1,249,719	\$68,449,404
2031	\$31,098,387	\$37,961,849	\$69,060,237	\$549,132	\$724,044	\$1,273,176	\$70,333,413
2032	\$31,946,092	\$39,024,077	\$70,970,170	\$560,606	\$737,751	\$1,298,357	\$72,268,527
2033	\$32,821,518	\$40,118,084	\$72,939,602	\$572,937	\$752,408	\$1,325,344	\$74,264,946
2034	\$33,713,390	\$41,237,511	\$74,950,901	\$586,076	\$768,056	\$1,354,131	\$76,305,032
2035	\$34,624,945	\$42,381,867	\$77,006,812	\$600,059	\$784,735	\$1,384,794	\$78,391,606
2036	\$35,558,794	\$43,559,037	\$79,117,831	\$614,914	\$802,494	\$1,417,409	\$80,535,240
2037	\$36,523,098	\$44,773,585	\$81,296,683	\$630,669	\$821,381	\$1,452,050	\$82,748,733
2038	\$37,517,343	\$46,024,933	\$83,542,275	\$647,327	\$841,443	\$1,488,770	\$85,031,045
2039	\$38,544,505	\$47,316,406	\$85,860,912	\$664,923	\$862,706	\$1,527,629	\$87,388,541
2040	\$39,608,740	\$48,653,911	\$88,262,651	\$683,470	\$885,216	\$1,568,687	\$89,831,338
2041	\$40,703,802	\$50,039,179	\$90,742,981	\$702,978	\$909,019	\$1,611,997	\$92,354,978
2042	\$41,837,826	\$51,477,731	\$93,315,557	\$723,469	\$934,143	\$1,657,612	\$94,973,169
2043	\$43,024,807	\$52,963,642	\$95,988,449	\$744,973	\$960,628	\$1,705,601	\$97,694,050
2044	\$44,251,061	\$54,499,491	\$98,750,552	\$767,526	\$988,519	\$1,756,044	\$100,506,596
2045	\$45,526,819	\$56,091,667	\$101,618,486	\$791,159	\$1,017,870	\$1,809,029	\$103,427,515
2046	\$46,854,153	\$57,737,234	\$104,591,388	\$815,880	\$1,048,722	\$1,864,602	\$106,455,990
2047	\$48,234,132	\$59,443,953	\$107,678,084	\$841,661	\$1,081,118	\$1,922,779	\$109,600,863
2048	\$49,669,223	\$61,217,820	\$110,887,043	\$868,524	\$1,115,090	\$1,983,614	\$112,870,657
2049	\$51,163,575	\$63,065,009	\$114,228,584	\$896,497	\$1,150,663	\$2,047,160	\$116,275,744
2050	\$52,722,344	\$64,990,529	\$117,712,873	\$925,639	\$1,187,876	\$2,113,514	\$119,826,387
2051	\$54,347,352	\$66,998,500	\$121,345,852	\$955,964	\$1,226,753	\$2,182,718	\$123,528,570

*This projection includes reservists.

**Future mortality improvement is assumed.

***This projection includes an adjustment for TERA retirees.

TOTAL ANNUAL RETIRED PAY FOR EACH FISCAL YEAR (continued)

(Dollar Amounts in Thousands)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2052	\$56,041,862	\$69,094,034	\$125,135,896	\$987,534	\$1,267,329	\$2,254,863	\$127,390,759
2053	\$57,811,778	\$71,283,568	\$129,095,345	\$1,020,404	\$1,309,641	\$2,330,044	\$131,425,389
2054	\$59,660,280	\$73,573,159	\$133,233,439	\$1,054,584	\$1,353,718	\$2,408,302	\$135,641,741
2055	\$61,592,531	\$75,967,236	\$137,559,766	\$1,090,137	\$1,399,595	\$2,489,733	\$140,049,499
2056	\$63,612,027	\$78,471,252	\$142,083,279	\$1,127,142	\$1,447,310	\$2,574,452	\$144,657,731
2057	\$65,723,768	\$81,090,357	\$146,814,124	\$1,165,584	\$1,496,899	\$2,662,482	\$149,476,606
2058	\$67,931,677	\$83,828,675	\$151,760,353	\$1,205,536	\$1,548,400	\$2,753,935	\$154,514,288
2059	\$70,237,538	\$86,691,467	\$156,929,005	\$1,247,031	\$1,601,849	\$2,848,879	\$159,777,884
2060	\$72,646,397	\$89,683,667	\$162,330,064	\$1,290,104	\$1,657,293	\$2,947,397	\$165,277,461
2061	\$75,163,193	\$92,809,091	\$167,972,284	\$1,334,794	\$1,714,785	\$3,049,578	\$171,021,862
2062	\$77,788,014	\$96,070,304	\$173,858,319	\$1,381,143	\$1,774,375	\$3,155,518	\$177,013,837
2063	\$80,526,000	\$99,469,890	\$179,995,890	\$1,429,194	\$1,836,120	\$3,265,314	\$183,261,204
2064	\$83,378,225	\$103,010,790	\$186,389,015	\$1,478,983	\$1,900,079	\$3,379,061	\$189,768,076
2065	\$86,346,493	\$106,696,098	\$193,042,591	\$1,530,547	\$1,966,315	\$3,496,862	\$196,539,453
2066	\$89,432,792	\$110,528,757	\$199,961,549	\$1,583,926	\$2,034,899	\$3,618,825	\$203,580,374
2067	\$92,639,064	\$114,511,621	\$207,150,685	\$1,639,164	\$2,105,907	\$3,745,071	\$210,895,756
2068	\$95,967,212	\$118,647,938	\$214,615,150	\$1,696,306	\$2,179,417	\$3,875,724	\$218,490,874
2069	\$99,419,177	\$122,941,454	\$222,360,631	\$1,755,405	\$2,255,514	\$4,010,919	\$226,371,550
2070	\$102,997,994	\$127,396,270	\$230,394,264	\$1,816,525	\$2,334,285	\$4,150,810	\$234,545,074
2071	\$106,706,515	\$132,016,531	\$238,723,046	\$1,879,732	\$2,415,820	\$4,295,552	\$243,018,598
2072	\$110,548,549	\$136,806,788	\$247,355,337	\$1,945,105	\$2,500,218	\$4,445,323	\$251,800,660
2073	\$114,528,669	\$141,772,332	\$256,301,001	\$2,012,733	\$2,587,585	\$4,600,318	\$260,901,319
2074	\$118,651,141	\$146,918,821	\$265,569,962	\$2,082,711	\$2,678,021	\$4,760,731	\$270,330,693
2075	\$122,921,113	\$152,252,308	\$275,173,421	\$2,155,137	\$2,771,635	\$4,926,771	\$280,100,192
2076	\$127,344,227	\$157,779,254	\$285,123,481	\$2,230,116	\$2,868,540	\$5,098,656	\$290,222,137
2077	\$131,926,833	\$163,506,500	\$295,433,333	\$2,307,754	\$2,968,855	\$5,276,609	\$300,709,942
2078	\$136,675,203	\$169,441,403	\$306,116,606	\$2,388,161	\$3,072,700	\$5,460,861	\$311,577,467
2079	\$141,596,075	\$175,591,950	\$317,188,025	\$2,471,438	\$3,180,201	\$5,651,640	\$322,839,665
2080	\$146,696,856	\$181,965,985	\$328,662,841	\$2,557,712	\$3,291,485	\$5,849,196	\$334,512,037
2081	\$151,984,330	\$188,570,909	\$340,555,239	\$2,647,105	\$3,406,684	\$6,053,789	\$346,609,028
2082	\$157,465,412	\$195,414,001	\$352,879,413	\$2,739,695	\$3,525,943	\$6,265,638	\$359,145,051
2083	\$163,148,154	\$202,504,147	\$365,652,301	\$2,835,611	\$3,649,396	\$6,485,007	\$372,137,308
2084	\$169,039,989	\$209,850,383	\$378,890,372	\$2,934,965	\$3,777,189	\$6,712,154	\$385,602,526
2085	\$175,148,365	\$217,462,010	\$392,610,375	\$3,037,868	\$3,909,475	\$6,947,343	\$399,557,718
2086	\$181,480,983	\$225,348,736	\$406,829,719	\$3,144,434	\$4,046,408	\$7,190,842	\$414,020,561
2087	\$188,045,796	\$233,520,561	\$421,566,357	\$3,254,776	\$4,188,138	\$7,442,914	\$429,009,271
2088	\$194,850,581	\$241,987,674	\$436,838,255	\$3,369,010	\$4,334,838	\$7,703,848	\$444,542,103
2089	\$201,903,200	\$250,760,635	\$452,663,835	\$3,487,258	\$4,486,680	\$7,973,938	\$460,637,773
2090	\$209,211,852	\$259,850,370	\$469,062,222	\$3,609,644	\$4,643,842	\$8,253,485	\$477,315,707
2091	\$216,784,752	\$269,268,295	\$486,053,047	\$3,736,297	\$4,806,507	\$8,542,804	\$494,595,851
2092	\$224,630,736	\$279,026,219	\$503,656,955	\$3,867,355	\$4,974,868	\$8,842,222	\$512,499,177
2093	\$232,759,115	\$289,136,134	\$521,895,249	\$4,002,962	\$5,149,121	\$9,152,083	\$531,047,332
2094	\$241,178,966	\$299,610,562	\$540,789,528	\$4,143,272	\$5,329,471	\$9,472,743	\$550,262,271
2095	\$249,900,031	\$310,462,510	\$560,362,541	\$4,288,444	\$5,516,133	\$9,804,577	\$570,167,118
2096	\$258,932,570	\$321,705,345	\$580,637,915	\$4,438,648	\$5,709,326	\$10,147,974	\$590,785,889
2097	\$268,287,336	\$333,352,949	\$601,640,285	\$4,594,063	\$5,909,278	\$10,503,341	\$612,143,626
2098	\$277,975,623	\$345,419,802	\$623,395,425	\$4,754,874	\$6,116,227	\$10,871,102	\$634,266,527
2099	\$288,009,230	\$357,920,973	\$645,930,203	\$4,921,277	\$6,330,426	\$11,251,704	\$657,181,907
2100	\$298,400,688	\$370,872,099	\$669,272,787	\$5,093,476	\$6,552,152	\$11,645,628	\$680,918,415

*This projection includes reservists.

**Future mortality improvement is assumed.

***This projection includes an adjustment for TERA retirees.

RETIREE GAIN STATEMENT

Fiscal Year	Gains During the Fiscal Year				Average Starting Net Retired Pay Before CPI Increase			
	Nondisabled		Disabled		Nondisabled		Disabled	
	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted
2002	14,152	37,389	415	2,357	\$29,778	\$14,167	\$22,442	\$7,904
2003	14,565	38,940	414	2,368	\$29,953	\$14,705	\$23,179	\$8,204
2004	14,701	40,471	415	2,380	\$30,813	\$15,200	\$23,836	\$8,460
2005	14,753	40,711	416	2,376	\$31,777	\$15,699	\$24,490	\$8,696
2006	16,085	42,618	418	2,367	\$31,543	\$15,918	\$25,136	\$8,910
2007	17,230	43,486	419	2,347	\$31,172	\$15,708	\$25,747	\$9,121
2008	16,347	40,596	420	2,320	\$32,579	\$16,231	\$26,369	\$9,312
2009	15,244	38,372	421	2,308	\$34,543	\$16,839	\$27,058	\$9,528
2010	14,155	35,828	419	2,293	\$36,493	\$17,564	\$27,787	\$9,754
2011	13,375	33,322	417	2,276	\$38,343	\$18,356	\$28,535	\$9,989
2012	13,052	32,640	416	2,274	\$40,040	\$18,983	\$29,305	\$10,253
2013	12,748	31,548	415	2,269	\$41,619	\$19,718	\$30,152	\$10,533
2014	12,387	30,254	412	2,261	\$43,303	\$20,424	\$31,010	\$10,810
2015	12,169	29,819	410	2,256	\$44,768	\$20,978	\$31,920	\$11,109
2016	11,969	30,785	408	2,263	\$46,241	\$21,376	\$32,853	\$11,444
2017	11,881	32,226	406	2,278	\$47,733	\$21,874	\$33,802	\$11,819
2018	11,860	32,403	404	2,281	\$49,065	\$22,441	\$34,791	\$12,177
2019	11,824	32,196	402	2,276	\$50,321	\$23,058	\$35,792	\$12,527
2020	11,985	32,901	400	2,276	\$50,481	\$23,274	\$36,753	\$12,907
2021	11,992	33,471	397	2,277	\$51,310	\$23,907	\$37,764	\$13,322
2022	12,526	34,621	399	2,285	\$51,463	\$23,784	\$38,701	\$13,672
2023	12,798	35,024	401	2,289	\$52,083	\$24,221	\$39,711	\$14,073
2024	12,887	34,909	401	2,290	\$53,253	\$24,857	\$40,836	\$14,521
2025	12,901	34,815	403	2,295	\$54,843	\$25,653	\$42,019	\$15,002
2026	12,906	34,793	405	2,299	\$56,621	\$26,568	\$43,293	\$15,517
2027	12,904	34,704	406	2,301	\$58,560	\$27,611	\$44,670	\$16,048
2028	12,816	34,465	406	2,300	\$60,643	\$28,488	\$46,063	\$16,580
2029	12,770	34,398	409	2,300	\$62,660	\$29,350	\$47,573	\$17,132
2030	12,764	34,342	409	2,300	\$64,875	\$30,339	\$49,113	\$17,710
2031	12,670	34,080	410	2,299	\$67,156	\$31,472	\$50,755	\$18,311
2032	12,693	33,785	412	2,298	\$69,946	\$32,587	\$52,532	\$18,931
2033	12,714	33,598	413	2,298	\$72,408	\$33,772	\$54,376	\$19,580
2034	12,710	33,502	413	2,296	\$74,848	\$34,940	\$56,267	\$20,257
2035	12,730	33,470	413	2,295	\$77,582	\$36,155	\$58,234	\$20,958
2036	12,710	33,481	413	2,294	\$80,143	\$37,402	\$60,286	\$21,687
2037	12,742	33,547	412	2,294	\$82,942	\$38,665	\$62,353	\$22,440
2038	12,742	33,563	412	2,294	\$85,490	\$39,966	\$64,465	\$23,218
2039	12,747	33,547	411	2,293	\$88,240	\$41,333	\$66,660	\$24,024
2040	12,734	33,552	410	2,293	\$91,166	\$42,741	\$68,925	\$24,859
2041	12,663	33,556	409	2,292	\$94,213	\$44,191	\$71,247	\$25,723
2042	12,642	33,596	409	2,292	\$97,408	\$45,695	\$73,659	\$26,620
2043	12,623	33,600	409	2,292	\$100,678	\$47,276	\$76,167	\$27,549
2044	12,601	33,577	408	2,292	\$104,092	\$48,927	\$78,761	\$28,512
2045	12,591	33,582	408	2,293	\$107,580	\$50,627	\$81,445	\$29,510
2046	12,591	33,619	408	2,293	\$111,209	\$52,387	\$84,240	\$30,546
2047	12,596	33,650	408	2,293	\$115,003	\$54,218	\$87,146	\$31,618
2048	12,597	33,667	408	2,294	\$118,949	\$56,111	\$90,152	\$32,727
2049	12,601	33,685	408	2,294	\$123,023	\$58,066	\$93,298	\$33,874
2050	12,613	33,704	408	2,294	\$127,283	\$60,097	\$96,558	\$35,062
2051	12,619	33,718	408	2,294	\$131,691	\$62,204	\$99,948	\$36,293

*This projection includes reservists.

**Future mortality improvement is assumed.

***Gains during the year include those people who die before year end. All dollar figures are after total and partial VA offsets.

RETIREE GAIN STATEMENT (continued)

Fiscal Year	Gains During the Fiscal Year				Average Starting Net Retired Pay Before CPI Increase			
	Nondisabled		Disabled		Nondisabled		Disabled	
	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted
2052	12,645	33,733	408	2,294	\$136,376	\$64,389	\$103,489	\$37,565
2053	12,668	33,744	409	2,295	\$141,214	\$66,649	\$107,169	\$38,883
2054	12,681	33,748	409	2,295	\$146,205	\$68,987	\$110,971	\$40,246
2055	12,696	33,751	409	2,295	\$151,411	\$71,411	\$114,910	\$41,657
2056	12,707	33,755	409	2,295	\$156,795	\$73,919	\$118,997	\$43,117
2057	12,720	33,759	409	2,295	\$162,408	\$76,512	\$123,218	\$44,627
2058	12,725	33,760	410	2,295	\$168,176	\$79,194	\$127,571	\$46,190
2059	12,726	33,757	410	2,295	\$174,145	\$81,971	\$132,078	\$47,807
2060	12,726	33,754	410	2,295	\$180,335	\$84,844	\$136,733	\$49,480
2061	12,719	33,750	410	2,295	\$186,716	\$87,816	\$141,540	\$51,212
2062	12,715	33,747	410	2,295	\$193,319	\$90,891	\$146,508	\$53,004
2063	12,711	33,744	410	2,295	\$200,122	\$94,074	\$151,641	\$54,858
2064	12,704	33,740	410	2,295	\$207,138	\$97,366	\$156,942	\$56,778
2065	12,697	33,737	410	2,294	\$214,389	\$100,774	\$162,416	\$58,764
2066	12,691	33,735	409	2,294	\$221,861	\$104,300	\$168,078	\$60,821
2067	12,686	33,735	409	2,294	\$229,604	\$107,950	\$173,931	\$62,949
2068	12,680	33,734	409	2,294	\$237,587	\$111,727	\$179,981	\$65,152
2069	12,675	33,734	409	2,295	\$245,837	\$115,636	\$186,243	\$67,433
2070	12,671	33,735	409	2,295	\$254,379	\$119,682	\$192,725	\$69,793
2071	12,667	33,736	409	2,295	\$263,206	\$123,870	\$199,436	\$72,236
2072	12,667	33,737	409	2,295	\$272,367	\$128,205	\$206,389	\$74,765
2073	12,668	33,739	409	2,295	\$281,850	\$132,692	\$213,595	\$77,383
2074	12,669	33,741	409	2,295	\$291,670	\$137,337	\$221,059	\$80,092
2075	12,671	33,743	409	2,295	\$301,845	\$142,144	\$228,789	\$82,896
2076	12,673	33,745	409	2,295	\$312,386	\$147,120	\$236,798	\$85,799
2077	12,677	33,747	409	2,295	\$323,315	\$152,271	\$245,095	\$88,803
2078	12,680	33,749	409	2,295	\$334,634	\$157,602	\$253,685	\$91,912
2079	12,683	33,750	409	2,295	\$346,357	\$163,119	\$262,581	\$95,130
2080	12,686	33,752	409	2,295	\$358,505	\$168,830	\$271,793	\$98,461
2081	12,688	33,753	409	2,295	\$371,084	\$174,741	\$281,330	\$101,908
2082	12,690	33,754	409	2,295	\$384,116	\$180,859	\$291,202	\$105,476
2083	12,693	33,755	409	2,295	\$397,605	\$187,191	\$301,420	\$109,168
2084	12,694	33,756	409	2,295	\$411,562	\$193,745	\$311,995	\$112,990
2085	12,695	33,757	409	2,295	\$426,009	\$200,528	\$322,935	\$116,946
2086	12,695	33,758	409	2,295	\$440,956	\$207,548	\$334,256	\$121,039
2087	12,695	33,758	409	2,295	\$456,426	\$214,814	\$345,969	\$125,276
2088	12,695	33,759	409	2,295	\$472,428	\$222,333	\$358,086	\$129,662
2089	12,694	33,759	409	2,295	\$488,980	\$230,116	\$370,622	\$134,201
2090	12,693	33,760	409	2,295	\$506,105	\$238,171	\$383,593	\$138,898
2091	12,692	33,760	409	2,295	\$523,819	\$246,508	\$397,013	\$143,760
2092	12,691	33,761	409	2,295	\$542,150	\$255,137	\$410,900	\$148,792
2093	12,690	33,761	409	2,295	\$561,116	\$264,068	\$425,272	\$154,001
2094	12,689	33,762	409	2,295	\$580,739	\$273,311	\$440,145	\$159,391
2095	12,688	33,762	409	2,295	\$601,045	\$282,877	\$455,537	\$164,971
2096	12,688	33,763	409	2,295	\$622,058	\$292,779	\$471,468	\$170,745
2097	12,688	33,763	409	2,295	\$643,809	\$303,027	\$487,958	\$176,722
2098	12,687	33,764	409	2,295	\$666,319	\$313,634	\$505,026	\$182,908
2099	12,687	33,764	409	2,295	\$689,619	\$324,612	\$522,694	\$189,311
2100	12,688	33,765	409	2,295	\$713,737	\$335,975	\$540,983	\$195,938

*This projection includes reservists.

**Future mortality improvement is assumed.

***Gains during the year include those people who die before year end. All dollar figures are after total and partial VA offsets.

TOTAL NUMBER OF SURVIVORS ON SEPTEMBER 30 OF EACH FISCAL YEAR

Fiscal Year	SBP	RCSBP	Minimum Income	Death on Active Duty	RSFPP	Total
2001	215,584	27,076	459	2,115	16,062	261,296
2002	223,278	30,033	423	2,265	15,935	271,934
2003	230,154	33,309	389	2,421	15,771	282,045
2004	236,325	36,705	358	2,571	15,571	291,529
2005	241,691	40,189	328	2,712	15,319	300,239
2006	246,226	43,764	300	2,841	15,016	308,146
2007	249,901	47,418	273	2,965	14,659	315,216
2008	252,702	51,101	248	3,079	14,247	321,378
2009	254,542	54,757	225	3,186	13,738	326,447
2010	255,502	58,349	202	3,292	13,155	330,500
2011	255,686	61,843	182	3,391	12,529	333,631
2012	255,141	65,204	163	3,481	11,865	335,853
2013	253,933	68,400	145	3,562	11,166	337,206
2014	252,132	71,407	129	3,642	10,439	337,749
2015	249,816	74,205	115	3,708	9,691	337,535
2016	247,091	76,781	101	3,762	8,933	336,668
2017	244,043	79,130	89	3,803	8,173	335,238
2018	240,751	81,256	78	3,843	7,419	333,349
2019	237,284	83,172	69	3,883	6,682	331,089
2020	233,703	84,897	60	3,922	5,968	328,550
2021	230,066	86,451	53	3,963	5,287	325,820
2022	226,416	87,858	46	4,010	4,645	322,975
2023	222,781	89,145	40	4,056	4,047	320,068
2024	219,182	90,330	35	4,102	3,496	317,145
2025	215,630	91,433	30	4,150	2,996	314,238
2026	212,130	92,463	26	4,197	2,546	311,362
2027	208,691	93,430	23	4,245	2,146	308,535
2028	205,322	94,337	20	4,298	1,795	305,771
2029	202,037	95,185	17	4,352	1,490	303,081
2030	198,850	95,973	15	4,406	1,229	300,471
2031	195,770	96,690	13	4,460	1,008	297,941
2032	192,812	97,329	11	4,514	824	295,490
2033	189,987	97,880	9	4,569	674	293,119
2034	187,305	98,333	8	4,624	553	290,823
2035	184,764	98,685	7	4,682	458	288,596
2036	182,357	98,928	6	4,741	384	286,416
2037	180,072	99,056	5	4,799	328	284,260
2038	177,891	99,070	4	4,857	286	282,109
2039	175,800	98,975	4	4,914	255	279,947
2040	173,779	98,778	3	4,969	233	277,763
2041	171,812	98,494	3	5,024	217	275,550
2042	169,878	98,135	2	5,078	206	273,298
2043	167,958	97,716	2	5,135	198	271,008
2044	166,038	97,257	2	5,189	192	268,677
2045	164,108	96,774	1	5,241	188	266,313
2046	162,166	96,291	1	5,291	185	263,934
2047	160,208	95,824	1	5,338	183	261,554
2048	158,231	95,387	1	5,382	181	259,183
2049	156,239	94,991	1	5,425	180	256,835
2050	154,237	94,643	1	5,464	179	254,523

*This projection includes reservists.

**Future mortality improvement is assumed.

TOTAL NUMBER OF SURVIVORS ON SEPTEMBER 30 OF EACH FISCAL YEAR (continued)

Fiscal Year	SBP	RCSBP	Minimum Income	Death on Active Duty	RSFPP	Total
2051	152,237	94,349	1	5,505	178	252,270
2052	150,252	94,107	1	5,543	177	250,079
2053	148,287	93,911	0	5,577	176	247,951
2054	146,354	93,750	0	5,608	175	245,886
2055	144,460	93,612	0	5,635	173	243,880
2056	142,618	93,485	0	5,659	172	241,935
2057	140,843	93,363	0	5,680	171	240,057
2058	139,146	93,236	0	5,698	170	238,251
2059	137,541	93,098	0	5,715	168	236,523
2060	136,032	92,946	0	5,732	167	234,877
2061	134,645	92,783	0	5,746	165	233,341
2062	133,395	92,617	0	5,758	164	231,934
2063	132,294	92,450	0	5,767	162	230,673
2064	131,349	92,288	0	5,774	160	229,571
2065	130,565	92,138	0	5,779	158	228,640
2066	129,944	92,005	0	5,782	156	227,888
2067	129,485	91,895	0	5,784	154	227,319
2068	129,181	91,812	0	5,788	152	226,932
2069	129,019	91,756	0	5,792	149	226,717
2070	128,986	91,729	0	5,795	147	226,656
2071	129,061	91,728	0	5,798	144	226,731
2072	129,227	91,752	0	5,799	141	226,919
2073	129,463	91,795	0	5,799	138	227,194
2074	129,748	91,853	0	5,798	135	227,534
2075	130,065	91,923	0	5,797	131	227,917
2076	130,396	92,001	0	5,796	127	228,320
2077	130,724	92,083	0	5,796	123	228,726
2078	131,037	92,166	0	5,798	119	229,120
2079	131,325	92,249	0	5,799	114	229,486
2080	131,578	92,327	0	5,800	109	229,814
2081	131,795	92,403	0	5,800	104	230,102
2082	131,973	92,474	0	5,800	99	230,347
2083	132,113	92,542	0	5,799	94	230,548
2084	132,217	92,605	0	5,799	88	230,709
2085	132,293	92,666	0	5,799	83	230,840
2086	132,347	92,723	0	5,799	77	230,947
2087	132,383	92,777	0	5,803	71	231,034
2088	132,405	92,829	0	5,807	66	231,106
2089	132,418	92,880	0	5,810	60	231,168
2090	132,429	92,928	0	5,812	55	231,224
2091	132,439	92,976	0	5,815	49	231,279
2092	132,453	93,023	0	5,817	44	231,337
2093	132,472	93,069	0	5,819	40	231,399
2094	132,498	93,115	0	5,820	35	231,469
2095	132,535	93,162	0	5,821	31	231,549
2096	132,580	93,208	0	5,823	27	231,638
2097	132,634	93,254	0	5,825	24	231,736
2098	132,696	93,300	0	5,827	20	231,844
2099	132,764	93,347	0	5,832	17	231,960
2100	132,837	93,393	0	5,836	15	232,082

*This projection includes reservists.

**Future mortality improvement is assumed.

TOTAL ANNUAL SURVIVOR BENEFITS FOR EACH FISCAL YEAR

(Dollar Amounts in Thousands)

Fiscal Year	SBP	RCSBP	Minimum Income	Death on Active Duty	RSFPP	Total
2002	\$1,876,983	\$132,889	\$2,616	\$15,530	\$45,107	\$2,073,126
2003	\$1,961,972	\$150,257	\$2,443	\$16,483	\$45,410	\$2,176,565
2004	\$2,046,246	\$169,969	\$2,281	\$17,439	\$45,660	\$2,281,594
2005	\$2,130,707	\$191,405	\$2,129	\$18,466	\$45,867	\$2,388,575
2006	\$2,213,748	\$214,556	\$1,985	\$19,526	\$45,965	\$2,495,780
2007	\$2,293,941	\$239,331	\$1,848	\$20,634	\$45,904	\$2,601,657
2008	\$2,340,002	\$256,853	\$1,715	\$21,615	\$45,655	\$2,665,840
2009	\$2,379,090	\$274,653	\$1,587	\$22,522	\$45,141	\$2,722,994
2010	\$2,412,077	\$292,892	\$1,464	\$23,358	\$44,300	\$2,774,092
2011	\$2,450,682	\$312,973	\$1,352	\$24,496	\$43,384	\$2,832,887
2012	\$2,488,413	\$333,977	\$1,247	\$25,578	\$42,294	\$2,891,509
2013	\$2,519,091	\$354,958	\$1,147	\$26,548	\$40,964	\$2,942,710
2014	\$2,544,640	\$375,850	\$1,052	\$27,685	\$39,401	\$2,988,628
2015	\$2,565,763	\$396,789	\$962	\$28,622	\$37,616	\$3,029,751
2016	\$2,583,249	\$417,873	\$877	\$29,621	\$35,632	\$3,067,253
2017	\$2,597,363	\$438,986	\$798	\$30,693	\$33,482	\$3,101,322
2018	\$2,609,319	\$460,004	\$725	\$31,591	\$31,199	\$3,132,837
2019	\$2,618,977	\$480,894	\$657	\$32,495	\$28,820	\$3,161,843
2020	\$2,627,819	\$501,781	\$594	\$33,269	\$26,389	\$3,189,852
2021	\$2,636,343	\$522,749	\$537	\$34,073	\$23,948	\$3,217,650
2022	\$2,645,090	\$543,893	\$484	\$34,829	\$21,541	\$3,245,838
2023	\$2,654,686	\$565,319	\$436	\$35,473	\$19,206	\$3,275,120
2024	\$2,664,760	\$587,241	\$393	\$36,119	\$16,976	\$3,305,489
2025	\$2,676,670	\$609,790	\$353	\$36,705	\$14,880	\$3,338,398
2026	\$2,689,832	\$633,100	\$318	\$37,227	\$12,936	\$3,373,414
2027	\$2,704,332	\$657,267	\$285	\$37,669	\$11,160	\$3,410,713
2028	\$2,720,471	\$682,275	\$256	\$38,082	\$9,559	\$3,450,643
2029	\$2,739,782	\$708,155	\$229	\$38,531	\$8,133	\$3,494,831
2030	\$2,761,475	\$734,968	\$205	\$39,012	\$6,881	\$3,542,541
2031	\$2,785,927	\$762,704	\$184	\$39,568	\$5,795	\$3,594,178
2032	\$2,813,592	\$791,305	\$164	\$40,214	\$4,873	\$3,650,148
2033	\$2,844,979	\$820,657	\$146	\$40,989	\$4,101	\$3,710,871
2034	\$2,880,404	\$850,624	\$129	\$41,790	\$3,466	\$3,776,414
2035	\$2,919,567	\$881,039	\$114	\$42,594	\$2,956	\$3,846,270
2036	\$2,962,166	\$911,759	\$101	\$43,408	\$2,557	\$3,919,992
2037	\$3,007,963	\$942,632	\$89	\$44,393	\$2,254	\$3,997,331
2038	\$3,057,526	\$973,552	\$78	\$45,545	\$2,031	\$4,078,732
2039	\$3,110,839	\$1,004,428	\$69	\$46,834	\$1,872	\$4,164,043
2040	\$3,167,329	\$1,035,176	\$61	\$48,156	\$1,767	\$4,252,489
2041	\$3,226,359	\$1,065,768	\$53	\$49,571	\$1,703	\$4,343,455
2042	\$3,287,722	\$1,096,258	\$47	\$51,027	\$1,668	\$4,436,723
2043	\$3,350,849	\$1,126,731	\$41	\$52,540	\$1,657	\$4,531,819
2044	\$3,415,037	\$1,157,306	\$36	\$54,158	\$1,663	\$4,628,201
2045	\$3,480,206	\$1,188,151	\$32	\$55,854	\$1,682	\$4,725,926
2046	\$3,545,805	\$1,219,508	\$28	\$57,516	\$1,710	\$4,824,568
2047	\$3,611,758	\$1,251,658	\$25	\$59,360	\$1,745	\$4,924,547
2048	\$3,678,366	\$1,284,855	\$22	\$61,295	\$1,785	\$5,026,324
2049	\$3,745,249	\$1,319,354	\$20	\$63,368	\$1,827	\$5,129,818
2050	\$3,812,570	\$1,355,391	\$18	\$65,563	\$1,872	\$5,235,414
2051	\$3,880,259	\$1,393,189	\$17	\$67,871	\$1,919	\$5,343,256

*This projection includes reservists.

**Future mortality improvement is assumed.

TOTAL ANNUAL SURVIVOR BENEFITS FOR EACH FISCAL YEAR (continued)

(Dollar Amounts in Thousands)

Fiscal Year	SBP	RCSBP	Minimum Income	Death on Active Duty	RSFPP	Total
2052	\$3,948,348	\$1,432,952	\$16	\$70,243	\$1,966	\$5,453,525
2053	\$4,016,890	\$1,474,771	\$15	\$72,706	\$2,015	\$5,566,396
2054	\$4,085,745	\$1,518,671	\$14	\$75,266	\$2,064	\$5,681,761
2055	\$4,155,061	\$1,564,619	\$14	\$77,928	\$2,114	\$5,799,736
2056	\$4,224,960	\$1,612,569	\$14	\$80,697	\$2,164	\$5,920,404
2057	\$4,296,079	\$1,662,475	\$14	\$83,579	\$2,214	\$6,044,361
2058	\$4,368,710	\$1,714,311	\$14	\$86,583	\$2,263	\$6,171,882
2059	\$4,443,444	\$1,768,052	\$14	\$89,721	\$2,313	\$6,303,543
2060	\$4,520,859	\$1,823,685	\$14	\$92,986	\$2,363	\$6,439,906
2061	\$4,601,274	\$1,881,294	\$14	\$96,361	\$2,412	\$6,581,355
2062	\$4,686,323	\$1,941,066	\$14	\$99,877	\$2,461	\$6,729,740
2063	\$4,777,058	\$2,003,181	\$14	\$103,528	\$2,509	\$6,886,290
2064	\$4,874,529	\$2,067,807	\$14	\$107,319	\$2,556	\$7,052,224
2065	\$4,979,728	\$2,135,125	\$14	\$111,240	\$2,602	\$7,228,709
2066	\$5,093,647	\$2,205,347	\$13	\$115,293	\$2,646	\$7,416,947
2067	\$5,217,233	\$2,278,700	\$13	\$119,491	\$2,689	\$7,618,127
2068	\$5,351,242	\$2,355,393	\$13	\$123,849	\$2,730	\$7,833,227
2069	\$5,496,233	\$2,435,605	\$13	\$128,357	\$2,769	\$8,062,976
2070	\$5,652,595	\$2,519,486	\$12	\$132,992	\$2,804	\$8,307,890
2071	\$5,820,443	\$2,607,157	\$12	\$137,795	\$2,837	\$8,568,244
2072	\$5,999,698	\$2,698,700	\$11	\$142,759	\$2,865	\$8,844,033
2073	\$6,190,138	\$2,794,156	\$11	\$147,893	\$2,888	\$9,135,086
2074	\$6,391,351	\$2,893,571	\$10	\$153,211	\$2,905	\$9,441,049
2075	\$6,602,992	\$2,996,962	\$9	\$158,710	\$2,916	\$9,761,589
2076	\$6,824,676	\$3,104,333	\$8	\$164,400	\$2,919	\$10,096,336
2077	\$7,055,969	\$3,215,717	\$8	\$170,315	\$2,915	\$10,444,924
2078	\$7,296,479	\$3,331,156	\$7	\$176,448	\$2,901	\$10,806,991
2079	\$7,545,973	\$3,450,704	\$6	\$182,762	\$2,879	\$11,182,323
2080	\$7,804,304	\$3,574,418	\$5	\$189,313	\$2,847	\$11,570,887
2081	\$8,071,708	\$3,702,412	\$4	\$196,098	\$2,804	\$11,973,026
2082	\$8,347,978	\$3,834,860	\$3	\$203,156	\$2,751	\$12,388,749
2083	\$8,633,279	\$3,971,890	\$3	\$210,506	\$2,687	\$12,818,365
2084	\$8,927,910	\$4,113,656	\$2	\$218,147	\$2,611	\$13,262,327
2085	\$9,232,478	\$4,260,336	\$2	\$226,093	\$2,525	\$13,721,434
2086	\$9,547,694	\$4,412,117	\$1	\$234,355	\$2,428	\$14,196,596
2087	\$9,874,086	\$4,569,177	\$1	\$242,988	\$2,321	\$14,688,574
2088	\$10,212,214	\$4,731,714	\$1	\$251,908	\$2,206	\$15,198,042
2089	\$10,562,684	\$4,899,939	\$1	\$261,154	\$2,083	\$15,725,861
2090	\$10,926,227	\$5,074,075	\$0	\$270,759	\$1,956	\$16,273,016
2091	\$11,303,437	\$5,254,352	\$0	\$280,746	\$1,824	\$16,840,359
2092	\$11,694,993	\$5,440,992	\$0	\$291,102	\$1,691	\$17,428,778
2093	\$12,101,582	\$5,634,233	\$0	\$301,853	\$1,557	\$18,039,225
2094	\$12,523,740	\$5,834,322	\$0	\$313,024	\$1,424	\$18,672,510
2095	\$12,962,078	\$6,041,512	\$0	\$324,611	\$1,294	\$19,329,495
2096	\$13,417,304	\$6,256,062	\$0	\$336,638	\$1,168	\$20,011,172
2097	\$13,889,814	\$6,478,235	\$0	\$349,123	\$1,046	\$20,718,218
2098	\$14,380,139	\$6,708,300	\$0	\$362,092	\$929	\$21,451,460
2099	\$14,888,748	\$6,946,535	\$0	\$375,559	\$819	\$22,211,661
2100	\$15,416,029	\$7,193,224	\$0	\$389,496	\$717	\$22,999,467

*This projection includes reservists.

**Future mortality improvement is assumed.

TOTAL PROJECTED BASIC PAY AND RETIRED APPROPRIATION OUTLAYS

(Dollar Amounts in Thousands)

Fiscal Year	Total Projected Basic Pay	Total Projected Retired Outlays	Retired Outlays Over Basic Pay
2001	\$42,827,752	\$35,269,566	82.4%
2002	\$44,125,531	\$36,215,403	82.1%
2003	\$45,098,459	\$37,225,034	82.5%
2004	\$46,074,878	\$38,314,662	83.2%
2005	\$47,145,773	\$39,476,099	83.7%
2006	\$48,314,599	\$40,677,581	84.2%
2007	\$49,567,742	\$41,818,740	84.4%
2008	\$50,883,512	\$43,064,682	84.6%
2009	\$52,271,553	\$44,113,505	84.4%
2010	\$53,749,796	\$45,308,897	84.3%
2011	\$55,360,616	\$46,547,255	84.1%
2012	\$57,037,815	\$47,775,489	83.8%
2013	\$58,802,387	\$48,987,700	83.3%
2014	\$60,667,739	\$50,188,391	82.7%
2015	\$62,608,959	\$51,399,499	82.1%
2016	\$64,590,368	\$52,646,157	81.5%
2017	\$66,613,292	\$53,924,362	81.0%
2018	\$68,723,717	\$55,218,927	80.3%
2019	\$70,933,125	\$56,530,175	79.7%
2020	\$73,229,557	\$57,870,209	79.0%
2021	\$75,627,277	\$59,247,576	78.3%
2022	\$78,144,436	\$60,664,275	77.6%
2023	\$80,778,932	\$62,112,126	76.9%
2024	\$83,524,589	\$63,591,885	76.1%
2025	\$86,366,621	\$65,110,988	75.4%
2026	\$89,302,997	\$66,680,481	74.7%
2027	\$92,346,719	\$68,368,718	74.0%
2028	\$95,513,351	\$70,093,592	73.4%
2029	\$98,798,230	\$71,987,378	72.9%
2030	\$102,203,471	\$73,923,669	72.3%
2031	\$105,733,012	\$75,915,313	71.8%
2032	\$109,386,433	\$77,972,931	71.3%
2033	\$113,172,444	\$80,078,957	70.8%
2034	\$117,097,408	\$82,235,708	70.2%
2035	\$121,162,886	\$84,453,316	69.7%
2036	\$125,371,855	\$86,744,339	69.2%
2037	\$129,729,739	\$89,108,193	68.7%
2038	\$134,249,052	\$91,551,098	68.2%
2039	\$138,934,742	\$94,082,405	67.7%
2040	\$143,793,871	\$96,697,048	67.2%
2041	\$148,831,586	\$99,408,525	66.8%
2042	\$154,048,754	\$102,224,505	66.4%
2043	\$159,452,948	\$105,133,426	65.9%
2044	\$165,051,199	\$108,152,052	65.5%
2045	\$170,847,498	\$111,279,146	65.1%
2046	\$176,846,322	\$114,523,970	64.8%
2047	\$183,055,174	\$117,895,508	64.4%
2048	\$189,482,546	\$121,404,053	64.1%
2049	\$196,134,554	\$125,060,253	63.8%
2050	\$203,018,017	\$128,870,235	63.5%

*Basic pay includes reserve and active duty basic pay; outlays include retired pay and survivor benefits.

**This projection includes reservists.

***Future mortality improvement is assumed.

****Beginning with the FY98 valuation book, this projection includes an adjustment for TERA retirees.

TOTAL PROJECTED BASIC PAY AND RETIRED APPROPRIATION OUTLAYS (continued)

(Dollar Amounts in Thousands)

Fiscal Year	Total Projected Basic Pay	Total Projected Retired Outlays	Retired Outlays Over Basic Pay
2051	\$210,139,571	\$132,842,646	63.2%
2052	\$217,504,665	\$136,990,099	63.0%
2053	\$225,123,444	\$141,321,760	62.8%
2054	\$233,006,081	\$145,847,436	62.6%
2055	\$241,161,285	\$150,576,277	62.4%
2056	\$249,598,018	\$155,519,045	62.3%
2057	\$258,326,345	\$160,684,212	62.2%
2058	\$267,358,560	\$166,079,398	62.1%
2059	\$276,705,849	\$171,715,264	62.1%
2060	\$286,380,067	\$177,601,041	62.0%
2061	\$296,393,496	\$183,741,326	62.0%
2062	\$306,757,633	\$190,145,169	62.0%
2063	\$317,485,513	\$196,817,903	62.0%
2064	\$328,590,700	\$203,765,694	62.0%
2065	\$340,086,549	\$210,994,786	62.0%
2066	\$351,986,529	\$218,511,285	62.1%
2067	\$364,304,902	\$226,321,443	62.1%
2068	\$377,057,061	\$234,431,816	62.2%
2069	\$390,258,027	\$242,850,205	62.2%
2070	\$403,923,227	\$251,584,039	62.3%
2071	\$418,068,467	\$260,641,856	62.3%
2072	\$432,709,442	\$270,033,537	62.4%
2073	\$447,863,268	\$279,768,852	62.5%
2074	\$463,547,834	\$289,858,876	62.5%
2075	\$479,781,319	\$300,315,562	62.6%
2076	\$496,582,331	\$311,151,957	62.7%
2077	\$513,970,265	\$322,381,561	62.7%
2078	\$531,965,730	\$334,019,112	62.8%
2079	\$550,589,888	\$346,080,081	62.9%
2080	\$569,864,620	\$358,579,252	62.9%
2081	\$589,812,664	\$371,531,052	63.0%
2082	\$610,457,449	\$384,952,989	63.1%
2083	\$631,823,535	\$398,862,244	63.1%
2084	\$653,936,485	\$413,276,631	63.2%
2085	\$676,822,654	\$428,214,732	63.3%
2086	\$700,509,243	\$443,695,526	63.3%
2087	\$725,024,459	\$459,737,942	63.4%
2088	\$750,397,786	\$476,361,554	63.5%
2089	\$776,659,570	\$493,586,770	63.6%
2090	\$803,841,125	\$511,434,390	63.6%
2091	\$831,974,819	\$529,926,267	63.7%
2092	\$861,093,927	\$549,085,003	63.8%
2093	\$891,232,997	\$568,933,360	63.8%
2094	\$922,427,832	\$589,495,322	63.9%
2095	\$954,715,403	\$610,795,896	64.0%
2096	\$988,133,850	\$632,860,801	64.0%
2097	\$1,022,722,595	\$655,717,061	64.1%
2098	\$1,058,522,547	\$679,392,751	64.2%
2099	\$1,095,575,998	\$703,917,167	64.3%

*Basic pay includes reserve and active duty basic pay; outlays include retired pay and survivor benefits.

**This projection includes reservists.

***Future mortality improvement is assumed.

****Beginning with the FY98 valuation book, this projection includes an adjustment for TERA retirees.

APPENDIX L

PROJECTIONS EXCLUDING RESERVISTS (100 YEARS)

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TOTAL NUMBER OF RETIREES ON SEPTEMBER 30 OF EACH FISCAL YEAR

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2001	352,414	1,024,050	1,376,464	27,556	70,850	98,406	1,474,870
2002	353,506	1,030,443	1,383,949	26,400	69,316	95,716	1,479,665
2003	354,298	1,037,431	1,391,730	25,258	67,889	93,147	1,484,876
2004	355,023	1,045,066	1,400,089	24,133	66,526	90,659	1,490,749
2005	355,587	1,052,134	1,407,721	23,036	65,192	88,227	1,495,949
2006	356,045	1,058,311	1,414,356	21,971	63,865	85,836	1,500,192
2007	356,353	1,062,429	1,418,782	20,946	62,533	83,478	1,502,260
2008	356,524	1,063,639	1,420,163	19,969	61,190	81,159	1,501,322
2009	356,610	1,063,366	1,419,976	19,048	59,853	78,901	1,498,877
2010	356,284	1,061,207	1,417,491	18,186	58,523	76,709	1,494,200
2011	355,635	1,057,129	1,412,765	17,386	57,201	74,587	1,487,352
2012	354,916	1,052,417	1,407,333	16,655	55,904	72,558	1,479,891
2013	354,012	1,046,687	1,400,699	15,991	54,631	70,622	1,471,321
2014	352,859	1,039,604	1,392,462	15,393	53,382	68,775	1,461,237
2015	351,491	1,031,580	1,383,071	14,858	52,161	67,019	1,450,090
2016	349,942	1,024,005	1,373,946	14,384	50,983	65,367	1,439,313
2017	348,308	1,017,477	1,365,785	13,963	49,856	63,818	1,429,604
2018	346,577	1,010,900	1,357,477	13,591	48,768	62,359	1,419,836
2019	344,673	1,003,597	1,348,270	13,261	47,711	60,972	1,409,242
2020	342,664	996,231	1,338,895	12,968	46,693	59,661	1,398,556
2021	340,356	988,896	1,329,252	12,703	45,716	58,420	1,387,672
2022	338,371	982,355	1,320,725	12,468	44,786	57,254	1,377,979
2023	336,463	976,147	1,312,610	12,256	43,897	56,153	1,368,763
2024	334,561	970,149	1,304,710	12,063	43,046	55,109	1,359,819
2025	332,785	964,649	1,297,434	11,886	42,236	54,122	1,351,555
2026	331,103	959,715	1,290,819	11,723	41,466	53,189	1,344,007
2027	329,494	955,184	1,284,678	11,573	40,731	52,304	1,336,981
2028	327,887	950,787	1,278,674	11,431	40,030	51,461	1,330,135
2029	326,306	946,583	1,272,889	11,299	39,362	50,661	1,323,550
2030	324,759	942,560	1,267,319	11,175	38,727	49,902	1,317,221
2031	323,189	938,640	1,261,829	11,058	38,124	49,182	1,311,012
2032	321,710	934,865	1,256,574	10,950	37,553	48,502	1,305,077
2033	320,249	931,169	1,251,419	10,848	37,013	47,862	1,299,280
2034	318,771	927,472	1,246,243	10,754	36,506	47,260	1,293,503
2035	317,306	923,777	1,241,082	10,666	36,030	46,696	1,287,778
2036	315,824	920,128	1,235,952	10,585	35,586	46,172	1,282,123
2037	314,377	916,563	1,230,940	10,512	35,175	45,686	1,276,626
2038	312,931	913,029	1,225,961	10,445	34,795	45,240	1,271,200
2039	311,502	909,501	1,221,003	10,385	34,445	44,830	1,265,833
2040	310,105	906,012	1,216,117	10,332	34,124	44,457	1,260,574
2041	308,714	902,560	1,211,274	10,286	33,833	44,118	1,255,392
2042	307,402	899,204	1,206,606	10,245	33,568	43,814	1,250,419
2043	306,178	895,955	1,202,133	10,211	33,331	43,542	1,245,675
2044	305,043	892,831	1,197,875	10,183	33,119	43,302	1,241,177
2045	304,015	889,876	1,193,891	10,159	32,932	43,091	1,236,982
2046	303,098	887,120	1,190,218	10,140	32,768	42,908	1,233,125
2047	302,296	884,592	1,186,889	10,124	32,626	42,750	1,229,639
2048	301,608	882,312	1,183,920	10,112	32,504	42,616	1,226,537
2049	301,032	880,312	1,181,344	10,103	32,400	42,504	1,223,848
2050	300,574	878,624	1,179,198	10,097	32,314	42,411	1,221,608

*This projection excludes reservists.

**Future mortality improvement is assumed.

TOTAL NUMBER OF RETIREES ON SEPTEMBER 30 OF EACH FISCAL YEAR (continued)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2051	300,220	877,250	1,177,471	10,093	32,242	42,335	1,219,805
2052	299,989	876,213	1,176,203	10,091	32,184	42,275	1,218,477
2053	299,873	875,522	1,175,395	10,091	32,137	42,228	1,217,623
2054	299,860	875,173	1,175,033	10,092	32,102	42,194	1,217,227
2055	299,948	875,162	1,175,110	10,095	32,075	42,170	1,217,280
2056	300,127	875,474	1,175,600	10,099	32,055	42,155	1,217,755
2057	300,394	876,092	1,176,486	10,104	32,042	42,147	1,218,633
2058	300,740	876,995	1,177,734	10,110	32,035	42,145	1,219,879
2059	301,154	878,154	1,179,308	10,117	32,031	42,148	1,221,456
2060	301,631	879,540	1,181,171	10,123	32,031	42,154	1,223,325
2061	302,153	881,115	1,183,268	10,130	32,033	42,163	1,225,431
2062	302,716	882,844	1,185,560	10,137	32,037	42,174	1,227,734
2063	303,311	884,689	1,188,000	10,144	32,042	42,186	1,230,186
2064	303,923	886,617	1,190,540	10,150	32,047	42,198	1,232,738
2065	304,545	888,594	1,193,139	10,156	32,053	42,209	1,235,348
2066	305,164	890,590	1,195,754	10,161	32,059	42,220	1,237,974
2067	305,773	892,580	1,198,354	10,165	32,064	42,229	1,240,583
2068	306,364	894,543	1,200,907	10,169	32,069	42,237	1,243,144
2069	306,931	896,460	1,203,391	10,171	32,073	42,244	1,245,635
2070	307,470	898,323	1,205,792	10,173	32,077	42,249	1,248,042
2071	307,976	900,118	1,208,094	10,174	32,079	42,253	1,250,348
2072	308,453	901,843	1,210,296	10,174	32,082	42,256	1,252,552
2073	308,902	903,496	1,212,398	10,174	32,084	42,258	1,254,656
2074	309,323	905,080	1,214,403	10,173	32,085	42,259	1,256,662
2075	309,721	906,598	1,216,319	10,173	32,086	42,259	1,258,578
2076	310,098	908,054	1,218,152	10,172	32,087	42,259	1,260,411
2077	310,460	909,455	1,219,915	10,171	32,088	42,259	1,262,174
2078	310,812	910,809	1,221,621	10,170	32,088	42,258	1,263,879
2079	311,156	912,124	1,223,280	10,169	32,089	42,258	1,265,538
2080	311,498	913,407	1,224,904	10,169	32,089	42,257	1,267,162
2081	311,837	914,653	1,226,491	10,168	32,089	42,257	1,268,748
2082	312,179	915,872	1,228,051	10,168	32,090	42,258	1,270,309
2083	312,525	917,069	1,229,594	10,168	32,090	42,258	1,271,852
2084	312,876	918,248	1,231,124	10,169	32,090	42,259	1,273,383
2085	313,232	919,413	1,232,645	10,169	32,091	42,260	1,274,905
2086	313,593	920,569	1,234,162	10,170	32,092	42,261	1,276,423
2087	313,960	921,716	1,235,676	10,170	32,092	42,263	1,277,939
2088	314,331	922,858	1,237,188	10,171	32,093	42,264	1,279,452
2089	314,704	923,994	1,238,698	10,172	32,093	42,265	1,280,963
2090	315,078	925,125	1,240,203	10,172	32,094	42,267	1,282,470
2091	315,452	926,253	1,241,705	10,173	32,095	42,268	1,283,973
2092	315,825	927,378	1,243,203	10,174	32,095	42,269	1,285,472
2093	316,195	928,499	1,244,694	10,174	32,096	42,270	1,286,964
2094	316,562	929,616	1,246,178	10,174	32,096	42,271	1,288,449
2095	316,925	930,728	1,247,653	10,175	32,097	42,272	1,289,925
2096	317,283	931,836	1,249,119	10,175	32,097	42,272	1,291,391
2097	317,636	932,938	1,250,575	10,175	32,098	42,273	1,292,847
2098	317,984	934,035	1,252,020	10,175	32,098	42,273	1,294,293
2099	318,328	935,127	1,253,455	10,175	32,099	42,273	1,295,728
2100	318,667	936,214	1,254,881	10,174	32,099	42,274	1,297,154

*This projection excludes reservists.

**Future mortality improvement is assumed.

TOTAL ANNUAL RETIRED PAY FOR EACH FISCAL YEAR

(Dollar Amounts in Thousands)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2002	\$12,774,501	\$16,449,540	\$29,224,041	\$678,473	\$601,800	\$1,280,273	\$30,504,314
2003	\$13,079,157	\$16,905,059	\$29,984,217	\$659,605	\$599,449	\$1,259,054	\$31,243,271
2004	\$13,392,394	\$17,403,478	\$30,795,872	\$640,862	\$597,909	\$1,238,771	\$32,034,643
2005	\$13,730,277	\$17,944,664	\$31,674,941	\$622,750	\$597,447	\$1,220,197	\$32,895,138
2006	\$14,084,060	\$18,512,367	\$32,596,426	\$604,931	\$597,356	\$1,202,287	\$33,798,713
2007	\$14,441,370	\$19,071,941	\$33,513,311	\$587,135	\$597,006	\$1,184,141	\$34,697,452
2008	\$14,797,501	\$19,599,919	\$34,397,420	\$569,513	\$596,458	\$1,165,971	\$35,563,391
2009	\$15,219,220	\$20,181,583	\$35,400,803	\$560,664	\$599,156	\$1,159,820	\$36,560,623
2010	\$15,579,863	\$20,671,836	\$36,251,700	\$543,805	\$598,160	\$1,141,965	\$37,393,665
2011	\$16,005,514	\$21,230,324	\$37,235,839	\$530,238	\$599,656	\$1,129,894	\$38,365,733
2012	\$16,456,673	\$21,805,991	\$38,262,663	\$518,425	\$601,875	\$1,120,300	\$39,382,963
2013	\$16,914,242	\$22,373,926	\$39,288,168	\$507,908	\$604,167	\$1,112,075	\$40,400,243
2014	\$17,375,025	\$22,927,005	\$40,302,030	\$498,836	\$606,508	\$1,105,344	\$41,407,374
2015	\$17,838,732	\$23,464,514	\$41,303,246	\$491,314	\$608,948	\$1,100,262	\$42,403,508
2016	\$18,304,791	\$24,003,142	\$42,307,933	\$485,418	\$611,698	\$1,097,116	\$43,405,049
2017	\$18,777,291	\$24,563,306	\$43,340,597	\$481,165	\$615,023	\$1,096,188	\$44,436,785
2018	\$19,258,200	\$25,138,689	\$44,396,889	\$478,544	\$618,884	\$1,097,429	\$45,494,318
2019	\$19,745,400	\$25,713,131	\$45,458,531	\$477,461	\$623,141	\$1,100,602	\$46,559,133
2020	\$20,236,643	\$26,288,149	\$46,524,792	\$477,791	\$627,815	\$1,105,606	\$47,630,398
2021	\$20,726,987	\$26,876,065	\$47,603,053	\$479,335	\$633,048	\$1,112,382	\$48,715,435
2022	\$21,224,513	\$27,472,951	\$48,697,464	\$482,152	\$638,856	\$1,121,009	\$49,818,473
2023	\$21,735,945	\$28,077,413	\$49,813,358	\$486,031	\$645,241	\$1,131,272	\$50,944,630
2024	\$22,256,376	\$28,691,982	\$50,948,357	\$490,916	\$652,280	\$1,143,197	\$52,091,554
2025	\$22,787,657	\$29,322,511	\$52,110,168	\$496,701	\$660,056	\$1,156,757	\$53,266,925
2026	\$23,332,903	\$29,977,641	\$53,310,544	\$503,429	\$668,642	\$1,172,071	\$54,482,615
2027	\$23,898,037	\$30,661,323	\$54,559,360	\$510,992	\$678,069	\$1,189,060	\$55,748,420
2028	\$24,556,631	\$31,367,298	\$55,923,929	\$519,358	\$688,317	\$1,207,675	\$57,131,604
2029	\$25,226,776	\$32,092,118	\$57,318,894	\$528,525	\$699,360	\$1,227,885	\$58,546,779
2030	\$25,909,369	\$32,966,024	\$58,875,393	\$538,460	\$711,259	\$1,249,719	\$60,125,112
2031	\$26,606,837	\$33,860,194	\$60,467,031	\$549,132	\$724,044	\$1,273,176	\$61,740,207
2032	\$27,328,815	\$34,779,435	\$62,108,250	\$560,606	\$737,751	\$1,298,357	\$63,406,607
2033	\$28,076,392	\$35,730,553	\$63,806,945	\$572,937	\$752,408	\$1,325,344	\$65,132,289
2034	\$28,836,422	\$36,704,019	\$65,540,441	\$586,076	\$768,056	\$1,354,131	\$66,894,572
2035	\$29,610,850	\$37,697,035	\$67,307,884	\$600,059	\$784,735	\$1,384,794	\$68,692,678
2036	\$30,401,793	\$38,716,912	\$69,118,705	\$614,914	\$802,494	\$1,417,409	\$70,536,114
2037	\$31,216,586	\$39,767,838	\$70,984,424	\$630,669	\$821,381	\$1,452,050	\$72,436,474
2038	\$32,053,182	\$40,848,586	\$72,901,768	\$647,327	\$841,443	\$1,488,770	\$74,390,538
2039	\$32,913,197	\$41,961,933	\$74,875,130	\$664,923	\$862,706	\$1,527,629	\$76,402,759
2040	\$33,800,753	\$43,113,527	\$76,914,279	\$683,470	\$885,216	\$1,568,687	\$78,482,966
2041	\$34,710,354	\$44,305,014	\$79,015,369	\$702,978	\$909,019	\$1,611,997	\$80,627,366
2042	\$35,650,376	\$45,541,736	\$81,192,112	\$723,469	\$934,143	\$1,657,612	\$82,849,724
2043	\$36,634,407	\$46,817,769	\$83,452,177	\$744,973	\$960,628	\$1,705,601	\$85,157,778
2044	\$37,648,175	\$48,135,924	\$85,784,099	\$767,526	\$988,519	\$1,756,044	\$87,540,143
2045	\$38,701,445	\$49,502,403	\$88,203,848	\$791,159	\$1,017,870	\$1,809,029	\$90,012,877
2046	\$39,796,087	\$50,913,789	\$90,709,875	\$815,880	\$1,048,722	\$1,864,602	\$92,574,477
2047	\$40,933,047	\$52,377,500	\$93,310,547	\$841,661	\$1,081,118	\$1,922,779	\$95,233,326
2048	\$42,114,584	\$53,899,192	\$96,013,776	\$868,524	\$1,115,090	\$1,983,614	\$97,997,390
2049	\$43,344,655	\$55,484,645	\$98,829,300	\$896,497	\$1,150,663	\$2,047,160	\$100,876,460
2050	\$44,628,187	\$57,138,451	\$101,766,638	\$925,639	\$1,187,876	\$2,113,514	\$103,880,152
2051	\$45,966,790	\$58,864,350	\$104,831,141	\$955,964	\$1,226,753	\$2,182,718	\$107,013,859

*This projection excludes reservists.

**Future mortality improvement is assumed.

***Beginning with the FY97 valuation book, this projection includes an adjustment for TERA retirees.

TOTAL ANNUAL RETIRED PAY FOR EACH FISCAL YEAR (continued)

(Dollar Amounts in Thousands)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2052	\$47,363,516	\$60,667,030	\$108,030,546	\$987,534	\$1,267,329	\$2,254,863	\$110,285,409
2053	\$48,823,843	\$62,552,368	\$111,376,211	\$1,020,404	\$1,309,641	\$2,330,044	\$113,706,255
2054	\$50,350,450	\$64,525,812	\$114,876,262	\$1,054,584	\$1,353,718	\$2,408,302	\$117,284,564
2055	\$51,948,063	\$66,591,208	\$118,539,271	\$1,090,137	\$1,399,595	\$2,489,733	\$121,029,004
2056	\$53,619,748	\$68,753,517	\$122,373,265	\$1,127,142	\$1,447,310	\$2,574,452	\$124,947,717
2057	\$55,370,092	\$71,017,385	\$126,387,476	\$1,165,584	\$1,496,899	\$2,662,482	\$129,049,958
2058	\$57,202,510	\$73,386,335	\$130,588,846	\$1,205,536	\$1,548,400	\$2,753,935	\$133,342,781
2059	\$59,118,140	\$75,864,978	\$134,983,118	\$1,247,031	\$1,601,849	\$2,848,879	\$137,831,997
2060	\$61,121,449	\$78,457,630	\$139,579,079	\$1,290,104	\$1,657,293	\$2,947,397	\$142,526,476
2061	\$63,216,836	\$81,167,553	\$144,384,389	\$1,334,794	\$1,714,785	\$3,049,578	\$147,433,967
2062	\$65,403,824	\$83,996,781	\$149,400,606	\$1,381,143	\$1,774,375	\$3,155,518	\$152,556,124
2063	\$67,686,999	\$86,947,370	\$154,634,369	\$1,429,194	\$1,836,120	\$3,265,314	\$157,899,683
2064	\$70,066,902	\$90,021,763	\$160,088,665	\$1,478,983	\$1,900,079	\$3,379,061	\$163,467,726
2065	\$72,544,775	\$93,222,517	\$165,767,292	\$1,530,547	\$1,966,315	\$3,496,862	\$169,264,154
2066	\$75,122,069	\$96,552,049	\$171,674,118	\$1,583,926	\$2,034,899	\$3,618,825	\$175,292,943
2067	\$77,800,217	\$100,012,675	\$177,812,892	\$1,639,164	\$2,105,907	\$3,745,071	\$181,557,963
2068	\$80,580,578	\$103,607,078	\$184,187,656	\$1,696,306	\$2,179,417	\$3,875,724	\$188,063,380
2069	\$83,464,526	\$107,338,418	\$190,802,944	\$1,755,405	\$2,255,514	\$4,010,919	\$194,813,863
2070	\$86,454,479	\$111,210,176	\$197,664,655	\$1,816,525	\$2,334,285	\$4,150,810	\$201,815,465
2071	\$89,552,679	\$115,225,874	\$204,778,553	\$1,879,732	\$2,415,820	\$4,295,552	\$209,074,105
2072	\$92,762,294	\$119,389,404	\$212,151,698	\$1,945,105	\$2,500,218	\$4,445,323	\$216,597,021
2073	\$96,087,201	\$123,705,189	\$219,792,390	\$2,012,733	\$2,587,585	\$4,600,318	\$224,392,708
2074	\$99,530,901	\$128,178,434	\$227,709,335	\$2,082,711	\$2,678,021	\$4,760,731	\$232,470,066
2075	\$103,097,710	\$132,814,106	\$235,911,816	\$2,155,137	\$2,771,635	\$4,926,771	\$240,838,587
2076	\$106,792,414	\$137,617,858	\$244,410,272	\$2,230,116	\$2,868,540	\$5,098,656	\$249,508,928
2077	\$110,620,462	\$142,595,650	\$253,216,112	\$2,307,754	\$2,968,855	\$5,276,609	\$258,492,721
2078	\$114,587,138	\$147,753,881	\$262,341,019	\$2,388,161	\$3,072,700	\$5,460,861	\$267,801,880
2079	\$118,698,141	\$153,099,517	\$271,797,658	\$2,471,438	\$3,180,201	\$5,651,640	\$277,449,298
2080	\$122,959,803	\$158,639,336	\$281,599,139	\$2,557,712	\$3,291,485	\$5,849,196	\$287,448,335
2081	\$127,377,946	\$164,379,846	\$291,757,792	\$2,647,105	\$3,406,684	\$6,053,789	\$297,811,581
2082	\$131,958,487	\$170,327,412	\$302,285,899	\$2,739,695	\$3,525,943	\$6,265,638	\$308,551,537
2083	\$136,708,275	\$176,489,741	\$313,198,016	\$2,835,611	\$3,649,396	\$6,485,007	\$319,683,023
2084	\$141,633,520	\$182,874,655	\$324,508,175	\$2,934,965	\$3,777,189	\$6,712,154	\$331,220,329
2085	\$146,740,399	\$189,490,201	\$336,230,600	\$3,037,868	\$3,909,475	\$6,947,343	\$343,177,943
2086	\$152,035,307	\$196,344,774	\$348,380,081	\$3,144,434	\$4,046,408	\$7,190,842	\$355,570,923
2087	\$157,524,827	\$203,447,009	\$360,971,836	\$3,254,776	\$4,188,138	\$7,442,914	\$368,414,750
2088	\$163,215,349	\$210,805,691	\$374,021,040	\$3,369,010	\$4,334,838	\$7,703,848	\$381,724,888
2089	\$169,113,312	\$218,429,936	\$387,543,248	\$3,487,258	\$4,486,680	\$7,973,938	\$395,517,186
2090	\$175,225,397	\$226,329,165	\$401,554,562	\$3,609,644	\$4,643,842	\$8,253,485	\$409,808,047
2091	\$181,558,266	\$234,513,233	\$416,071,499	\$3,736,297	\$4,806,507	\$8,542,804	\$424,614,303
2092	\$188,119,215	\$242,992,313	\$431,111,528	\$3,867,355	\$4,974,868	\$8,842,222	\$439,953,750
2093	\$194,915,839	\$251,776,730	\$446,692,569	\$4,002,962	\$5,149,121	\$9,152,083	\$455,844,652
2094	\$201,955,555	\$260,877,289	\$462,832,844	\$4,143,272	\$5,329,471	\$9,472,743	\$472,305,587
2095	\$209,246,346	\$270,305,207	\$479,551,553	\$4,288,444	\$5,516,133	\$9,804,577	\$489,356,130
2096	\$216,796,650	\$280,072,006	\$496,868,656	\$4,438,648	\$5,709,326	\$10,147,974	\$507,016,630
2097	\$224,615,332	\$290,189,650	\$514,804,982	\$4,594,063	\$5,909,278	\$10,503,341	\$525,308,323
2098	\$232,711,736	\$300,670,636	\$533,382,372	\$4,754,874	\$6,116,227	\$10,871,102	\$544,253,474
2099	\$241,095,643	\$311,527,976	\$552,623,619	\$4,921,277	\$6,330,426	\$11,251,704	\$563,875,323
2100	\$249,777,481	\$322,775,174	\$572,552,655	\$5,093,476	\$6,552,152	\$11,645,628	\$584,198,283

*This projection excludes reservists.

**Future mortality improvement is assumed.

***Beginning with the FY97 valuation book, this projection includes an adjustment for TERA retirees.

RETIREE GAIN STATEMENT

Fiscal Year	Gains During the Fiscal Year				Average Starting Net Retired Pay Before CPI Increase			
	Nondisabled		Disabled		Nondisabled		Disabled	
	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted
2002	8,488	27,823	415	2,357	\$39,947	\$16,450	\$22,442	\$7,904
2003	8,464	29,109	414	2,368	\$40,339	\$17,023	\$23,179	\$8,204
2004	8,655	30,440	415	2,380	\$41,153	\$17,569	\$23,836	\$8,460
2005	8,730	30,542	416	2,376	\$42,186	\$18,175	\$24,490	\$8,696
2006	8,838	30,332	418	2,367	\$43,323	\$18,888	\$25,136	\$8,910
2007	8,876	28,930	419	2,347	\$43,922	\$19,148	\$25,747	\$9,121
2008	8,901	26,654	420	2,320	\$44,691	\$19,929	\$26,369	\$9,312
2009	8,948	25,763	421	2,308	\$45,782	\$20,470	\$27,058	\$9,528
2010	8,643	24,435	419	2,293	\$47,539	\$21,255	\$27,787	\$9,754
2011	8,392	23,032	417	2,276	\$49,233	\$22,086	\$28,535	\$9,989
2012	8,378	22,872	416	2,274	\$50,756	\$22,627	\$29,305	\$10,253
2013	8,237	22,288	415	2,269	\$52,577	\$23,366	\$30,152	\$10,533
2014	8,024	21,321	412	2,261	\$54,663	\$24,178	\$31,010	\$10,810
2015	7,842	20,714	410	2,256	\$56,626	\$24,971	\$31,920	\$11,109
2016	7,675	21,408	408	2,263	\$58,599	\$25,357	\$32,853	\$11,444
2017	7,609	22,648	406	2,278	\$60,541	\$25,752	\$33,802	\$11,819
2018	7,534	22,739	404	2,281	\$62,507	\$26,394	\$34,791	\$12,177
2019	7,390	22,097	402	2,276	\$64,724	\$27,398	\$35,792	\$12,527
2020	7,320	22,061	400	2,276	\$66,309	\$28,189	\$36,753	\$12,907
2021	7,051	22,053	397	2,277	\$68,838	\$29,210	\$37,764	\$13,322
2022	7,406	22,765	399	2,285	\$68,430	\$28,842	\$38,701	\$13,672
2023	7,519	22,978	401	2,289	\$69,288	\$29,313	\$39,711	\$14,073
2024	7,560	23,040	401	2,290	\$70,737	\$29,962	\$40,836	\$14,521
2025	7,721	23,369	403	2,295	\$71,844	\$30,667	\$42,019	\$15,002
2026	7,846	23,754	405	2,299	\$73,426	\$31,506	\$43,293	\$15,517
2027	7,946	23,965	406	2,301	\$75,369	\$32,594	\$44,670	\$16,048
2028	7,975	23,909	406	2,300	\$77,599	\$33,546	\$46,063	\$16,580
2029	8,025	23,915	409	2,300	\$79,679	\$34,508	\$47,573	\$17,132
2030	8,082	23,922	409	2,300	\$82,108	\$35,636	\$49,113	\$17,710
2031	8,076	23,864	410	2,299	\$84,582	\$36,886	\$50,755	\$18,311
2032	8,178	23,861	412	2,298	\$87,608	\$38,019	\$52,532	\$18,931
2033	8,202	23,812	413	2,298	\$90,616	\$39,330	\$54,376	\$19,580
2034	8,180	23,698	413	2,296	\$93,767	\$40,718	\$56,267	\$20,257
2035	8,177	23,603	413	2,295	\$97,338	\$42,193	\$58,234	\$20,958
2036	8,134	23,569	413	2,294	\$100,739	\$43,680	\$60,286	\$21,687
2037	8,130	23,579	412	2,294	\$104,483	\$45,175	\$62,353	\$22,440
2038	8,077	23,541	412	2,294	\$108,049	\$46,728	\$64,465	\$23,218
2039	8,027	23,472	411	2,293	\$111,942	\$48,375	\$66,660	\$24,024
2040	7,980	23,429	410	2,293	\$115,973	\$50,061	\$68,925	\$24,859
2041	7,902	23,390	409	2,292	\$120,103	\$51,795	\$71,247	\$25,723
2042	7,886	23,391	409	2,292	\$124,163	\$53,583	\$73,659	\$26,620
2043	7,871	23,384	409	2,292	\$128,311	\$55,444	\$76,167	\$27,549
2044	7,851	23,373	408	2,292	\$132,688	\$57,368	\$78,761	\$28,512
2045	7,842	23,380	408	2,293	\$137,110	\$59,352	\$81,445	\$29,510
2046	7,844	23,408	408	2,293	\$141,671	\$61,411	\$84,240	\$30,546
2047	7,850	23,434	408	2,293	\$146,433	\$63,551	\$87,146	\$31,618
2048	7,854	23,447	408	2,294	\$151,404	\$65,769	\$90,152	\$32,727
2049	7,859	23,461	408	2,294	\$156,525	\$68,057	\$93,298	\$33,874
2050	7,872	23,478	408	2,294	\$161,864	\$70,433	\$96,558	\$35,062
2051	7,879	23,490	408	2,294	\$167,416	\$72,898	\$99,948	\$36,293

*This projection excludes reservists.

**Future mortality improvement is assumed.

***Gains during the year include those people who die before year end. All dollar figures are after total and partial VA offsets.

RETIREE GAIN STATEMENT (continued)

Fiscal Year	Gains During the Fiscal Year				Average Starting Net Retired Pay Before CPI Increase			
	Nondisabled		Disabled		Nondisabled		Disabled	
	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted
2052	7,906	23,505	408	2,294	\$173,264	\$75,456	\$103,489	\$37,565
2053	7,929	23,516	409	2,295	\$179,315	\$78,101	\$107,169	\$38,883
2054	7,943	23,520	409	2,295	\$185,592	\$80,841	\$110,971	\$40,246
2055	7,959	23,523	409	2,295	\$192,142	\$83,681	\$114,910	\$41,657
2056	7,970	23,527	409	2,295	\$198,940	\$86,621	\$118,997	\$43,117
2057	7,984	23,531	409	2,295	\$206,022	\$89,659	\$123,218	\$44,627
2058	7,989	23,532	410	2,295	\$213,330	\$92,802	\$127,571	\$46,190
2059	7,991	23,530	410	2,295	\$220,913	\$96,058	\$132,078	\$47,807
2060	7,991	23,528	410	2,295	\$228,790	\$99,427	\$136,733	\$49,480
2061	7,984	23,524	410	2,295	\$236,946	\$102,911	\$141,540	\$51,212
2062	7,981	23,522	410	2,295	\$245,368	\$106,516	\$146,508	\$53,004
2063	7,977	23,519	410	2,295	\$254,039	\$110,247	\$151,641	\$54,858
2064	7,970	23,516	410	2,295	\$262,994	\$114,108	\$156,942	\$56,778
2065	7,963	23,513	410	2,294	\$272,247	\$118,101	\$162,416	\$58,764
2066	7,957	23,512	409	2,294	\$281,777	\$122,234	\$168,078	\$60,821
2067	7,952	23,512	409	2,294	\$291,644	\$126,511	\$173,931	\$62,949
2068	7,946	23,512	409	2,294	\$301,816	\$130,937	\$179,981	\$65,152
2069	7,940	23,512	409	2,295	\$312,325	\$135,517	\$186,243	\$67,433
2070	7,936	23,513	409	2,295	\$323,195	\$140,257	\$192,725	\$69,793
2071	7,932	23,514	409	2,295	\$334,427	\$145,163	\$199,436	\$72,236
2072	7,931	23,515	409	2,295	\$346,058	\$150,242	\$206,389	\$74,765
2073	7,932	23,517	409	2,295	\$358,083	\$155,498	\$213,595	\$77,383
2074	7,933	23,519	409	2,295	\$370,538	\$160,939	\$221,059	\$80,092
2075	7,935	23,520	409	2,295	\$383,436	\$166,572	\$228,789	\$82,896
2076	7,937	23,522	409	2,295	\$396,794	\$172,402	\$236,798	\$85,799
2077	7,941	23,524	409	2,295	\$410,637	\$178,436	\$245,095	\$88,803
2078	7,944	23,526	409	2,295	\$424,977	\$184,681	\$253,685	\$91,912
2079	7,947	23,527	409	2,295	\$439,833	\$191,146	\$262,581	\$95,130
2080	7,950	23,529	409	2,295	\$455,230	\$197,838	\$271,793	\$98,461
2081	7,952	23,530	409	2,295	\$471,185	\$204,764	\$281,330	\$101,908
2082	7,955	23,531	409	2,295	\$487,716	\$211,932	\$291,202	\$105,476
2083	7,957	23,532	409	2,295	\$504,830	\$219,352	\$301,420	\$109,168
2084	7,958	23,533	409	2,295	\$522,547	\$227,031	\$311,995	\$112,990
2085	7,959	23,533	409	2,295	\$540,891	\$234,979	\$322,935	\$116,946
2086	7,959	23,534	409	2,295	\$559,874	\$243,205	\$334,256	\$121,039
2087	7,960	23,534	409	2,295	\$579,525	\$251,719	\$345,969	\$125,276
2088	7,959	23,535	409	2,295	\$599,857	\$260,531	\$358,086	\$129,662
2089	7,959	23,535	409	2,295	\$620,892	\$269,650	\$370,622	\$134,201
2090	7,958	23,536	409	2,295	\$642,657	\$279,089	\$383,593	\$138,898
2091	7,956	23,536	409	2,295	\$665,174	\$288,858	\$397,013	\$143,760
2092	7,955	23,537	409	2,295	\$688,470	\$298,969	\$410,900	\$148,792
2093	7,954	23,537	409	2,295	\$712,569	\$309,433	\$425,272	\$154,001
2094	7,953	23,538	409	2,295	\$737,501	\$320,264	\$440,145	\$159,391
2095	7,953	23,538	409	2,295	\$763,299	\$331,474	\$455,537	\$164,971
2096	7,952	23,538	409	2,295	\$789,991	\$343,076	\$471,468	\$170,745
2097	7,952	23,539	409	2,295	\$817,613	\$355,084	\$487,958	\$176,722
2098	7,952	23,539	409	2,295	\$846,198	\$367,512	\$505,026	\$182,908
2099	7,952	23,540	409	2,295	\$875,781	\$380,376	\$522,694	\$189,311
2100	7,952	23,540	409	2,295	\$906,402	\$393,690	\$540,983	\$195,938

*This projection excludes reservists.

**Future mortality improvement is assumed.

***Gains during the year include those people who die before year end. All dollar figures are after total and partial VA offsets.

TOTAL NUMBER OF SURVIVORS ON SEPTEMBER 30 OF EACH FISCAL YEAR

Fiscal Year	SBP	RCSBP	Minimum Income	Death on Active Duty	RSFPP	Total
2001	215,584	27,076	459	2,115	16,062	261,296
2002	220,346	26,518	423	2,265	15,887	265,439
2003	224,697	25,930	389	2,421	15,687	269,124
2004	228,600	25,312	358	2,571	15,459	272,300
2005	231,973	24,662	328	2,712	15,190	274,864
2006	234,788	23,979	300	2,841	14,877	276,785
2007	237,015	23,264	273	2,965	14,519	278,035
2008	238,634	22,514	248	3,079	14,111	278,586
2009	239,553	21,732	225	3,186	13,615	278,311
2010	239,831	20,919	202	3,292	13,050	277,294
2011	239,541	20,077	182	3,391	12,443	275,634
2012	238,696	19,210	163	3,481	11,794	273,344
2013	237,330	18,319	145	3,562	11,110	270,467
2014	235,478	17,410	129	3,642	10,396	267,055
2015	233,183	16,484	115	3,708	9,659	263,149
2016	230,517	15,551	101	3,762	8,909	258,840
2017	227,536	14,616	89	3,803	8,154	254,198
2018	224,295	13,685	78	3,843	7,405	249,307
2019	220,845	12,764	69	3,883	6,670	244,231
2020	217,234	11,861	60	3,922	5,958	239,035
2021	213,513	10,981	53	3,963	5,278	233,788
2022	209,722	10,131	46	4,010	4,637	228,546
2023	205,894	9,316	40	4,056	4,039	223,345
2024	202,057	8,539	35	4,102	3,489	218,222
2025	198,236	7,803	30	4,150	2,989	213,207
2026	194,446	7,109	26	4,197	2,539	208,317
2027	190,708	6,458	23	4,245	2,139	203,573
2028	187,039	5,849	20	4,298	1,788	198,994
2029	183,461	5,283	17	4,352	1,484	194,597
2030	179,993	4,758	15	4,406	1,222	190,394
2031	176,651	4,273	13	4,460	1,001	186,397
2032	173,452	3,825	11	4,514	818	182,620
2033	170,412	3,414	9	4,569	667	179,071
2034	167,538	3,038	8	4,624	546	175,754
2035	164,834	2,694	7	4,682	451	172,668
2036	162,294	2,382	6	4,741	377	169,800
2037	159,905	2,099	5	4,799	321	167,129
2038	157,649	1,843	4	4,857	279	164,633
2039	155,510	1,612	4	4,914	249	162,289
2040	153,467	1,406	3	4,969	226	160,071
2041	151,499	1,221	3	5,024	210	157,957
2042	149,583	1,056	2	5,078	199	155,918
2043	147,698	910	2	5,135	191	153,935
2044	145,825	781	2	5,189	185	151,982
2045	143,950	668	1	5,241	181	150,042
2046	142,068	568	1	5,291	179	148,107
2047	140,170	482	1	5,338	177	146,168
2048	138,253	407	1	5,382	175	144,217
2049	136,315	342	1	5,425	174	142,257
2050	134,363	287	1	5,464	173	140,287

*This projection excludes reservists.

**Future mortality improvement is assumed.

TOTAL NUMBER OF SURVIVORS ON SEPTEMBER 30 OF EACH FISCAL YEAR (continued)

Fiscal Year	SBP	RCSBP	Minimum Income	Death on Active Duty	RSFPP	Total
2051	132,406	239	1	5,505	171	138,323
2052	130,456	199	1	5,543	170	136,369
2053	128,522	165	0	5,577	169	134,434
2054	126,615	137	0	5,608	168	132,528
2055	124,744	113	0	5,635	167	130,660
2056	122,926	93	0	5,659	166	128,844
2057	121,175	77	0	5,680	165	127,097
2058	119,505	63	0	5,698	164	125,430
2059	117,930	52	0	5,715	162	123,860
2060	116,454	43	0	5,732	161	122,391
2061	115,104	36	0	5,746	160	121,046
2062	113,891	30	0	5,758	158	119,837
2063	112,827	25	0	5,767	156	118,776
2064	111,919	21	0	5,774	155	117,868
2065	111,169	17	0	5,779	153	117,118
2066	110,579	15	0	5,782	151	116,527
2067	110,146	13	0	5,784	149	116,092
2068	109,861	11	0	5,788	147	115,807
2069	109,714	10	0	5,792	144	115,660
2070	109,688	8	0	5,795	142	115,634
2071	109,766	7	0	5,798	139	115,711
2072	109,930	6	0	5,799	136	115,872
2073	110,159	6	0	5,799	133	116,097
2074	110,434	5	0	5,798	130	116,368
2075	110,739	4	0	5,797	127	116,667
2076	111,056	4	0	5,796	123	116,979
2077	111,369	3	0	5,796	119	117,287
2078	111,666	3	0	5,798	115	117,582
2079	111,938	3	0	5,799	111	117,850
2080	112,176	2	0	5,800	106	118,084
2081	112,378	2	0	5,800	102	118,282
2082	112,543	2	0	5,800	97	118,441
2083	112,670	1	0	5,799	92	118,562
2084	112,762	1	0	5,799	86	118,648
2085	112,827	1	0	5,799	81	118,707
2086	112,870	1	0	5,799	75	118,745
2087	112,895	1	0	5,803	70	118,768
2088	112,907	1	0	5,807	64	118,778
2089	112,911	0	0	5,810	59	118,781
2090	112,912	0	0	5,812	54	118,779
2091	112,913	0	0	5,815	49	118,777
2092	112,919	0	0	5,817	44	118,780
2093	112,929	0	0	5,819	39	118,787
2094	112,947	0	0	5,820	35	118,802
2095	112,975	0	0	5,821	31	118,827
2096	113,012	0	0	5,823	27	118,861
2097	113,057	0	0	5,825	23	118,905
2098	113,110	0	0	5,827	20	118,958
2099	113,170	0	0	5,832	17	119,019
2100	113,234	0	0	5,836	15	119,085

*This projection excludes reservists.

**Future mortality improvement is assumed.

TOTAL ANNUAL SURVIVOR BENEFITS FOR EACH FISCAL YEAR

(Dollar Amounts in Thousands)

Fiscal Year	SBP	RCSBP	Minimum Income	Death on Active Duty	RSFPP	Total
2002	\$1,866,504	\$126,013	\$2,616	\$15,530	\$45,052	\$2,055,715
2003	\$1,934,162	\$125,154	\$2,443	\$16,483	\$45,292	\$2,123,534
2004	\$2,002,630	\$124,257	\$2,281	\$17,439	\$45,494	\$2,192,100
2005	\$2,072,554	\$123,364	\$2,129	\$18,466	\$45,664	\$2,262,178
2006	\$2,142,486	\$122,393	\$1,985	\$19,526	\$45,737	\$2,332,128
2007	\$2,211,121	\$121,240	\$1,848	\$20,634	\$45,664	\$2,400,507
2008	\$2,251,572	\$119,409	\$1,715	\$21,615	\$45,413	\$2,439,723
2009	\$2,286,361	\$117,210	\$1,587	\$22,522	\$44,912	\$2,472,592
2010	\$2,316,277	\$114,688	\$1,464	\$23,358	\$44,096	\$2,499,884
2011	\$2,352,527	\$112,431	\$1,352	\$24,496	\$43,208	\$2,534,013
2012	\$2,388,772	\$110,183	\$1,247	\$25,578	\$42,145	\$2,567,926
2013	\$2,418,909	\$107,671	\$1,147	\$26,548	\$40,842	\$2,595,117
2014	\$2,444,649	\$104,870	\$1,052	\$27,685	\$39,302	\$2,617,559
2015	\$2,466,426	\$101,717	\$962	\$28,622	\$37,538	\$2,635,265
2016	\$2,484,809	\$98,324	\$877	\$29,621	\$35,571	\$2,649,203
2017	\$2,499,839	\$94,693	\$798	\$30,693	\$33,434	\$2,659,458
2018	\$2,512,525	\$90,806	\$725	\$31,591	\$31,160	\$2,666,807
2019	\$2,522,551	\$86,684	\$657	\$32,495	\$28,789	\$2,671,177
2020	\$2,531,244	\$82,415	\$594	\$33,269	\$26,363	\$2,673,884
2021	\$2,538,997	\$78,073	\$537	\$34,073	\$23,925	\$2,675,605
2022	\$2,546,278	\$73,704	\$484	\$34,829	\$21,520	\$2,676,815
2023	\$2,553,680	\$69,302	\$436	\$35,473	\$19,186	\$2,678,077
2024	\$2,560,841	\$64,944	\$393	\$36,118	\$16,956	\$2,679,253
2025	\$2,569,175	\$60,656	\$353	\$36,705	\$14,860	\$2,681,749
2026	\$2,578,187	\$56,478	\$318	\$37,227	\$12,916	\$2,685,126
2027	\$2,588,047	\$52,440	\$285	\$37,668	\$11,139	\$2,689,580
2028	\$2,599,146	\$48,540	\$256	\$38,081	\$9,537	\$2,695,561
2029	\$2,613,049	\$44,783	\$229	\$38,530	\$8,111	\$2,704,703
2030	\$2,629,057	\$41,204	\$205	\$39,011	\$6,858	\$2,716,335
2031	\$2,647,597	\$37,789	\$184	\$39,567	\$5,772	\$2,730,909
2032	\$2,669,168	\$34,543	\$164	\$40,213	\$4,849	\$2,748,936
2033	\$2,694,330	\$31,467	\$146	\$40,987	\$4,076	\$2,771,005
2034	\$2,723,412	\$28,559	\$129	\$41,789	\$3,440	\$2,797,329
2035	\$2,756,156	\$25,823	\$114	\$42,592	\$2,930	\$2,827,616
2036	\$2,792,314	\$23,256	\$101	\$43,406	\$2,530	\$2,861,607
2037	\$2,831,662	\$20,856	\$89	\$44,392	\$2,226	\$2,899,225
2038	\$2,874,783	\$18,621	\$78	\$45,543	\$2,002	\$2,941,027
2039	\$2,921,670	\$16,551	\$69	\$46,832	\$1,843	\$2,986,966
2040	\$2,971,764	\$14,646	\$61	\$48,154	\$1,737	\$3,036,362
2041	\$3,024,434	\$12,902	\$53	\$49,569	\$1,672	\$3,088,631
2042	\$3,079,461	\$11,317	\$47	\$51,025	\$1,637	\$3,143,487
2043	\$3,136,266	\$9,888	\$41	\$52,538	\$1,625	\$3,200,358
2044	\$3,194,127	\$8,608	\$36	\$54,156	\$1,630	\$3,258,558
2045	\$3,252,940	\$7,469	\$32	\$55,853	\$1,648	\$3,317,942
2046	\$3,312,115	\$6,462	\$28	\$57,514	\$1,676	\$3,377,795
2047	\$3,371,532	\$5,577	\$25	\$59,359	\$1,710	\$3,438,202
2048	\$3,431,455	\$4,800	\$22	\$61,294	\$1,748	\$3,499,319
2049	\$3,491,467	\$4,123	\$20	\$63,367	\$1,790	\$3,560,768
2050	\$3,551,701	\$3,534	\$18	\$65,563	\$1,834	\$3,622,650
2051	\$3,612,055	\$3,023	\$17	\$67,871	\$1,880	\$3,684,846

*This projection excludes reservists.

**Future mortality improvement is assumed.

TOTAL ANNUAL SURVIVOR BENEFITS FOR EACH FISCAL YEAR (continued)

(Dollar Amounts in Thousands)

Fiscal Year	SBP	RCSBP	Minimum Income	Death on Active Duty	RSFPP	Total
2052	\$3,672,533	\$2,582	\$16	\$70,243	\$1,926	\$3,747,299
2053	\$3,733,179	\$2,201	\$15	\$72,706	\$1,974	\$3,810,076
2054	\$3,793,858	\$1,874	\$14	\$75,267	\$2,022	\$3,873,035
2055	\$3,854,725	\$1,594	\$14	\$77,929	\$2,071	\$3,936,332
2056	\$3,915,912	\$1,356	\$14	\$80,699	\$2,120	\$4,000,100
2057	\$3,978,061	\$1,151	\$14	\$83,581	\$2,169	\$4,064,976
2058	\$4,041,466	\$976	\$14	\$86,585	\$2,218	\$4,131,258
2059	\$4,106,715	\$828	\$14	\$89,723	\$2,267	\$4,199,547
2060	\$4,174,371	\$704	\$14	\$92,988	\$2,316	\$4,270,393
2061	\$4,244,743	\$600	\$14	\$96,363	\$2,364	\$4,344,084
2062	\$4,319,404	\$513	\$14	\$99,879	\$2,412	\$4,422,222
2063	\$4,399,363	\$440	\$14	\$103,531	\$2,460	\$4,505,808
2064	\$4,485,624	\$380	\$14	\$107,322	\$2,506	\$4,595,846
2065	\$4,579,126	\$330	\$14	\$111,242	\$2,551	\$4,693,263
2066	\$4,680,803	\$289	\$13	\$115,295	\$2,595	\$4,798,995
2067	\$4,791,546	\$254	\$13	\$119,493	\$2,638	\$4,913,944
2068	\$4,912,055	\$226	\$13	\$123,850	\$2,678	\$5,038,822
2069	\$5,042,844	\$202	\$13	\$128,358	\$2,716	\$5,174,134
2070	\$5,184,263	\$182	\$12	\$132,993	\$2,752	\$5,320,203
2071	\$5,336,399	\$165	\$12	\$137,796	\$2,784	\$5,477,156
2072	\$5,499,160	\$150	\$11	\$142,760	\$2,812	\$5,644,893
2073	\$5,672,317	\$137	\$11	\$147,894	\$2,835	\$5,823,193
2074	\$5,855,456	\$125	\$10	\$153,212	\$2,853	\$6,011,655
2075	\$6,048,233	\$114	\$9	\$158,710	\$2,864	\$6,209,931
2076	\$6,250,268	\$104	\$8	\$164,400	\$2,869	\$6,417,650
2077	\$6,461,127	\$94	\$8	\$170,315	\$2,865	\$6,634,410
2078	\$6,680,418	\$85	\$7	\$176,448	\$2,853	\$6,859,812
2079	\$6,907,909	\$77	\$6	\$182,762	\$2,832	\$7,093,585
2080	\$7,143,445	\$68	\$5	\$189,313	\$2,802	\$7,335,634
2081	\$7,387,224	\$61	\$4	\$196,099	\$2,762	\$7,586,149
2082	\$7,639,044	\$53	\$3	\$203,157	\$2,711	\$7,844,968
2083	\$7,899,049	\$46	\$3	\$210,506	\$2,649	\$8,112,252
2084	\$8,167,514	\$40	\$2	\$218,147	\$2,576	\$8,388,280
2085	\$8,445,024	\$34	\$2	\$226,093	\$2,492	\$8,673,646
2086	\$8,732,252	\$29	\$1	\$234,356	\$2,398	\$8,969,037
2087	\$9,029,691	\$24	\$1	\$242,988	\$2,295	\$9,275,000
2088	\$9,337,866	\$20	\$1	\$251,908	\$2,182	\$9,591,977
2089	\$9,657,350	\$17	\$1	\$261,155	\$2,063	\$9,920,585
2090	\$9,988,827	\$13	\$0	\$270,759	\$1,938	\$10,261,538
2091	\$10,332,851	\$11	\$0	\$280,746	\$1,809	\$10,615,417
2092	\$10,690,062	\$8	\$0	\$291,102	\$1,678	\$10,982,851
2093	\$11,061,094	\$6	\$0	\$301,853	\$1,547	\$11,364,500
2094	\$11,446,444	\$5	\$0	\$313,024	\$1,416	\$11,760,888
2095	\$11,846,680	\$3	\$0	\$324,611	\$1,287	\$12,172,582
2096	\$12,262,447	\$3	\$0	\$336,638	\$1,163	\$12,600,251
2097	\$12,694,102	\$2	\$0	\$349,123	\$1,042	\$13,044,269
2098	\$13,142,120	\$1	\$0	\$362,092	\$926	\$13,505,140
2099	\$13,606,921	\$1	\$0	\$375,559	\$817	\$13,983,298
2100	\$14,088,837	\$1	\$0	\$389,496	\$716	\$14,479,050

*This projection excludes reservists.

**Future mortality improvement is assumed.

TOTAL PROJECTED BASIC PAY AND RETIRED APPROPRIATION OUTLAYS

(Dollar Amounts in Thousands)

Fiscal Year	Total Projected Basic Pay	Total Projected Retired Outlays	Retired Outlays Over Basic Pay
2002	\$38,505,037	\$32,559,299	84.6%
2003	\$39,644,424	\$33,364,370	84.2%
2004	\$40,476,304	\$34,222,587	84.5%
2005	\$41,313,274	\$35,151,443	85.1%
2006	\$42,254,363	\$36,123,291	85.5%
2007	\$43,284,523	\$37,088,797	85.7%
2008	\$44,385,356	\$37,992,435	85.6%
2009	\$45,539,479	\$39,021,194	85.7%
2010	\$46,757,059	\$39,880,436	85.3%
2011	\$48,056,437	\$40,885,696	85.1%
2012	\$49,474,693	\$41,936,065	84.8%
2013	\$50,951,294	\$42,979,960	84.4%
2014	\$52,506,917	\$44,009,166	83.8%
2015	\$54,155,180	\$45,022,852	83.1%
2016	\$55,871,627	\$46,038,392	82.4%
2017	\$57,620,342	\$47,080,643	81.7%
2018	\$59,402,286	\$48,145,976	81.1%
2019	\$61,263,331	\$49,215,776	80.3%
2020	\$63,215,324	\$50,290,504	79.6%
2021	\$65,246,262	\$51,378,134	78.7%
2022	\$67,369,773	\$52,483,334	77.9%
2023	\$69,603,377	\$53,611,757	77.0%
2024	\$71,944,041	\$54,760,883	76.1%
2025	\$74,384,391	\$55,939,773	75.2%
2026	\$76,909,002	\$57,159,833	74.3%
2027	\$79,515,637	\$58,431,037	73.5%
2028	\$82,217,116	\$59,821,082	72.8%
2029	\$85,028,876	\$61,246,209	72.0%
2030	\$87,946,106	\$62,836,903	71.4%
2031	\$90,970,443	\$64,467,218	70.9%
2032	\$94,105,088	\$66,152,205	70.3%
2033	\$97,349,295	\$67,900,435	69.7%
2034	\$100,711,785	\$69,689,437	69.2%
2035	\$104,198,737	\$71,518,152	68.6%
2036	\$107,811,237	\$73,395,833	68.1%
2037	\$111,551,702	\$75,334,003	67.5%
2038	\$115,425,043	\$77,330,010	67.0%
2039	\$119,443,199	\$79,388,269	66.5%
2040	\$123,610,463	\$81,517,937	65.9%
2041	\$127,933,200	\$83,714,643	65.4%
2042	\$132,415,875	\$85,991,876	64.9%
2043	\$137,058,650	\$88,356,804	64.5%
2044	\$141,868,329	\$90,797,362	64.0%
2045	\$146,851,205	\$93,329,464	63.6%
2046	\$152,010,589	\$95,950,895	63.1%
2047	\$157,350,223	\$98,670,123	62.7%
2048	\$162,876,818	\$101,495,273	62.3%
2049	\$168,598,057	\$104,435,756	61.9%
2050	\$174,519,220	\$107,501,292	61.6%
2051	\$180,646,254	\$110,697,152	61.3%

*Outlays include retired pay and survivor benefits.

**This projection excludes reservists.

***Future mortality improvement is assumed.

****Beginning with the FY98 valuation book, this projection includes an adjustment for TERA retirees.

TOTAL PROJECTED BASIC PAY AND RETIRED APPROPRIATION OUTLAYS (continued)

(Dollar Amounts in Thousands)

Fiscal Year	Total Projected Basic Pay	Total Projected Retired Outlays	Retired Outlays Over Basic Pay
2052	\$186,984,896	\$114,031,111	61.0%
2053	\$193,539,669	\$117,514,684	60.7%
2054	\$200,319,758	\$121,155,899	60.5%
2055	\$207,334,342	\$124,963,581	60.3%
2056	\$214,591,103	\$128,946,003	60.1%
2057	\$222,097,938	\$133,113,058	59.9%
2058	\$229,863,813	\$137,472,126	59.8%
2059	\$237,899,880	\$142,029,560	59.7%
2060	\$246,216,149	\$146,794,813	59.6%
2061	\$254,823,252	\$151,775,923	59.6%
2062	\$263,732,210	\$156,976,144	59.5%
2063	\$272,953,213	\$162,403,215	59.5%
2064	\$282,497,943	\$168,061,225	59.5%
2065	\$292,378,564	\$173,955,001	59.5%
2066	\$302,606,983	\$180,089,455	59.5%
2067	\$313,195,169	\$186,469,362	59.5%
2068	\$324,155,834	\$193,099,597	59.6%
2069	\$335,502,762	\$199,985,339	59.6%
2070	\$347,249,314	\$207,132,962	59.6%
2071	\$359,409,196	\$214,548,512	59.7%
2072	\$371,996,432	\$222,239,129	59.7%
2073	\$385,024,875	\$230,213,087	59.8%
2074	\$398,509,730	\$238,478,883	59.8%
2075	\$412,466,913	\$247,045,664	59.9%
2076	\$426,912,558	\$255,923,717	59.9%
2077	\$441,863,156	\$265,124,270	60.0%
2078	\$457,335,914	\$274,658,842	60.1%
2079	\$473,349,171	\$284,540,054	60.1%
2080	\$489,921,747	\$294,781,170	60.2%
2081	\$507,073,090	\$305,394,972	60.2%
2082	\$524,823,429	\$316,393,796	60.3%
2083	\$543,193,589	\$327,792,630	60.3%
2084	\$562,205,440	\$339,606,035	60.4%
2085	\$581,881,755	\$351,849,100	60.5%
2086	\$602,246,008	\$364,537,565	60.5%
2087	\$623,322,414	\$377,687,457	60.6%
2088	\$645,136,091	\$391,314,687	60.7%
2089	\$667,713,325	\$405,435,711	60.7%
2090	\$691,081,153	\$420,067,650	60.8%
2091	\$715,267,463	\$435,227,915	60.8%
2092	\$740,301,078	\$450,934,924	60.9%
2093	\$766,211,605	\$467,207,608	61.0%
2094	\$793,029,793	\$484,065,062	61.0%
2095	\$820,787,516	\$501,527,427	61.1%
2096	\$849,517,675	\$519,615,720	61.2%
2097	\$879,254,201	\$538,351,552	61.2%
2098	\$910,032,158	\$557,757,690	61.3%
2099	\$941,887,943	\$577,857,805	61.4%
2100	\$974,859,182	\$598,676,619	61.4%

*Outlays include retired pay and survivor benefits.

**This projection excludes reservists.

***Future mortality improvement is assumed.

****Beginning with the FY98 valuation book, this projection includes an adjustment for TERA retirees.

APPENDIX M

MARKET VALUE OF ASSETS AND ACCUMULATED BENEFITS

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Statement of Net Assets Available for Benefits.....	M-2
Accumulated Plan Benefits.....	M-5

STATEMENT OF NET ASSETS AVAILABLE FOR BENEFITS

Under generally accepted accounting principles (FASB 35), private sector pension plans are required to include a table showing the “Net Assets Available for Benefits” and a “Statement of Changes in Net Assets Available for Benefits,” where assets are valued at fair market value in their accounting statements. For the Military Retirement Fund, fair market value is based on the bid prices of public issue securities with the same maturity dates and coupon rates as the special issue securities held by the Fund. These statements are included in Tables M-1 and M-2.

TABLE M-1

DEPARTMENT OF DEFENSE
MILITARY RETIREMENT FUND
STATEMENT OF NET ASSETS AVAILABLE FOR BENEFITS
(\$ in thousands)

For the Plan Year Ended
September 30, 2001

Assets

Investments, at fair market value, in U.S. Government securities ¹	\$184,223,662
Accounts receivable	
Accrued interest ²	4,787,526
Due from military retirees or their survivors	24,334
Cash	18,236
<u>Total Assets</u>	\$189,053,758
Accounts payable	(3,006,772)
<u>Total Assets Available for Benefits</u>	\$186,046,986

¹ Fair market value of securities has been measured by quoted prices (bid price) in the active U.S. Government securities market. Bid price used represents the over-the-counter quotations as of 4 p.m. eastern time as reported in the *Washington Post* on October 1, 2001.

² Includes accrued interest receivable and interest purchased.

TABLE M-2

DEPARTMENT OF DEFENSE
MILITARY RETIREMENT FUND
STATEMENT OF CHANGES IN NET ASSETS
AVAILABLE FOR BENEFITS
(\$ in thousands)

For the Plan Year Ended
September 30, 2001

Net assets available for benefits at beginning of plan year	\$172,071,229
Investment income	14,573,538
Net appreciation in fair market value of investments	6,148,109
Contributions from services	11,370,897
Appropriation to amortize the initial unfunded liability	16,089,000
Transfer from Office of Personnel Management	33
Total additions	\$ 48,181,576
Benefits paid to participants ¹	\$ 34,205,819
Net assets available for benefits at end of plan year	\$186,046,986

¹ The statement has been revised to show benefits paid to participants on an accrual basis:

Benefits paid on cash basis	\$34,097,374
Increase in liability for benefits due at end of year	108,445
Benefits paid on accrual basis	<u>\$34,205,819</u>

ACCUMULATED PLAN BENEFITS

Another measure of the liabilities of a retirement system is the value of benefits earned to the date of the valuation. This measure is a required disclosure under generally accepted accounting principles for the private sector. As shown in Table M-3, the present value of accumulated plan benefits for the military retirement system as of September 30, 2001, was \$630.9 billion.

Accumulated plan benefits are those future periodic payments that are attributable, under the plan's provisions, to service that military personnel have rendered prior to the valuation date. Accumulated plan benefits include benefits expected to be paid to (a) retired military personnel or their beneficiaries, (b) current beneficiaries, and (c) present active duty personnel and nonretired Reservists or their beneficiaries. Benefits payable under all circumstances (retirement, disability, and survivor) are included to the extent that they are deemed attributable to service rendered prior to the valuation date. No future salary increases are used, but annuities are increased in line with the post-retirement inflation provision.

The actuarial present value of accumulated plan benefits is the amount that results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as those for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment. The actuarial assumptions are based on the presumption that the plan will continue. Table M-3 summarizes these benefits. Were the plan to terminate, different actuarial assumptions and other factors might be applicable.

The net assets available for benefits, which are deducted from the accumulated plan benefits in Table M-3, are based on fair market value, as required under generally accepted accounting principles. This fair market value of the assets will differ from the amortized cost value used in determining the military retirement system's unfunded liability.

TABLE M-3

MILITARY RETIREMENT SYSTEM
DEPARTMENT OF DEFENSE
STATEMENT OF FINANCIAL POSITION
AS OF SEPTEMBER 30, 2001
(\$ in billions)

For the Plan Year Ended
September 30, 2001

Accumulated Plan Benefits

Actuarial present value of vested benefits

Participants currently receiving payments	\$ 487.3
Other vested participants ¹	<u>80.4</u>
Total vested	\$ 567.7

Actuarial present value of nonvested benefits ²	\$ 63.2
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Total actuarial present value of accumulated plan benefits	\$ 630.9
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<u>Total Assets³</u>	\$ 186.0
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<u>Excess of Accumulated Benefits over Net Assets</u>	\$444.9
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¹ For the purposes of this table, this line includes active duty and Reserve personnel who have attained twenty years of service.

² This line includes benefit accumulations for all active duty and Reserve participants with less than twenty years of service.

³ Total assets are reported in this table because the liability for benefit payments due is included in the actuarial present value of benefits for participants currently receiving payments.

APPENDIX N

UNFUNDED LIABILITY PAYMENTS

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Method of Amortizing Changes in the Unfunded Liability of the Military Retirement System.....	N-2
Calculation of the October 1, 2002, Unfunded Liability Payment	N-8

METHOD OF AMORTIZING CHANGES IN THE UNFUNDED LIABILITY OF THE MILITARY RETIREMENT SYSTEM

Introduction

Section 1465 of Title 10 states that the Secretary of Defense shall determine amortization methods and schedules for the annual amortization of changes in the unfunded liability (UFL) of the military retirement system. The section also states that these methods and assumptions must be approved by the DoD Retirement Board of Actuaries. The resulting payments are made by the Department of the Treasury to the military retirement fund and do not affect the DoD budget.

There are three causes of change in the military retirement system's unfunded liability: (1) changes in benefits, (2) annual experience gains or losses resulting from actual experience deviating from expected experience, and (3) changes in actuarial assumptions used in the projected liability calculations. When a change in the unfunded liability does not fit perfectly into one of the three categories, the Board of Actuaries will determine the most appropriate one. The following describes the technical procedure of amortizing these types of changes, as approved by the Board.

Amortization Procedure

All three types of changes in the unfunded liability are amortized by means of payment schedules so that: (1) the annual amortization payments increase each year by the long-term basic pay scale assumption (currently 3.5 percent), (2) the payment stream completely liquidates the additional liability over 30 years, and (3) the payments are expressed to the nearest million dollars. The amortization payments increase at approximately the same rate as the increase in the total basic payroll for a particular year—an outcome that is consistent with the way the normal cost payments and payments to amortize the system's initial unfunded liability are determined.

Experience gains and losses, which create changes in the unfunded liability, occur every year. Because these changes are usually small in relative terms, the payment streams to amortize them are combined. This produces one single payment stream for the category of experience gains and losses and eliminates the tedious tracking of up to thirty different small amortization schedules. The DoD actuarial staff can identify the separate segments if the need arises.

A similar method of combining amortization schedules is used for changes in the unfunded liability caused by changes in actuarial assumptions. Beginning with the September 30, 1995, valuation, changes to the unfunded liability due to all benefit changes are being combined and amortized in a single stream of payments. Detailed examples of how the amortization payments are calculated follow.

Actuarial gains and losses are changes in the unfunded liability that result from actual experience in a pension plan deviating from what was expected. An actuarial gain is a *decrease* in the unfunded liability and is therefore expressed as a negative number. Correspondingly, a loss represents an *increase* in the unfunded liability and is expressed as a positive number. To avoid confusion, the terms negative and positive “experience changes” will be used in place of “experience gains” and “experience losses.”

The amortization payment for a negative experience change (gain) is also expressed as a negative number. These negative amortization payments reduce any positive amortization payments otherwise payable, including the (positive) payments amortizing the system’s initial unfunded liability.

Amortization payments for changes in the unfunded liability are structured to increase each year with the basic pay scale increase. When the payments are negative, their absolute values are made to increase. Although this means that the payments are actually decreasing mathematically, for simplicity of expression both positive and negative amortization payments are said to “increase” by the basic pay scale increase.

Benefit and Experience Changes

Below is an example of how three years’ changes in unfunded liability due to actual experience differing from expected experience would be amortized. The amortization schedules would be identical if these changes in the unfunded liability had been due to changes in benefits. This example is hypothetical.

In FY01 there is an assumed experience change of -\$13,800 million (representing a gain of \$13,800 million) determined as of the end of the fiscal year, or September 30, 2001. Since this is the first experience change in the example, it does not need to be combined with a schedule for a prior year. It is amortized with 30 annual payments that increase each year at the rate of the assumed annual increase in basic pay. The payment stream commences on October 1, 2002, and the last payment is made on October 1, 2031. The final payment reduces the amortization base to zero.

The amount of the first payment, -\$697 million, is determined by means of the following steps:

1. Bring forward unamortized balance with interest to September 30, 2002:

$$-\$13,800 \text{ million} \times (1 + i) = -\$14,663 \text{ million}$$

2. Calculate annuity due factor for 30 years at interest rate $j = [(1 + i) \div (1 + s)] - 1$:

$$= 21.043417$$

3. Divide unamortized balance by annuity factor to get annual payment:

$$-\$14,663 \text{ million} \div 21.043417 = -\$697 \text{ million}$$

where the annual increase in the basic pay scale $s = .035$ and the valuation rate of interest $i = .0625$. The amortization period is 30 years. In general, the amortization interest rate, j , is defined by

$$j = [(1 + i) \div (1 + s)] - 1.$$

A hypothetical experience loss in FY02 creates a change in the unfunded liability of +\$8,400 million, calculated as of the end of that fiscal year, or September 30, 2002. The amortization schedules for this change and for the FY01 change are combined as follows. First, the unamortized balance of the FY01 experience change is determined. After the -\$697 million amortization payment is made on October 1, 2002, the remaining unamortized balance is -\$13,966 million. This balance is calculated as $[-13,966 = (-13,800 \times 1.0625) + 697]$. The +\$8,400 million experience change for FY02 is then added to the -\$13,966 unamortized balance, leaving a combined balance of -\$5,566 million $(-5,566 = -13,966 + 8,400)$.

This combined balance will be amortized over a "combined amortization period." The combined amortization period is equal to the weighted average of the remaining 29-year amortization period for the FY01 experience change and a new 30-year period for the FY02 experience change. The weights used in the calculation are the absolute values of the -\$13,966 million unamortized balance and the +\$8,400 million experience change, respectively.

Thus the combined amortization period is equal to:

$$\frac{(13,966 \times 29) + (8,400 \times 30)}{13,966 + 8,400} = 29.38 \text{ years}$$

An initial combined amortization payment of -\$285 million is determined by the following procedure:

1. Bring forward unamortized balance with interest to September 30, 2003:

$$-\$5,566 \text{ million} \times (1 + i) = -\$5,914 \text{ million}$$

2. Calculate annuity due factor for 29.38 years at interest rate $j = [(1 + i) \div (1 + s)] - 1$:

$$= 20.752971$$

3. Divide unamortized balance by annuity factor to get annual payment:

$$-\$5,914 \text{ million} \div 20.752971 = -\$285 \text{ million}$$

The payments in this amortization stream will increase at 3.5 percent per year. The payment at the end of the 29th year is -\$747 million. A final, partial payment will be made at the end of the 30th year and is equal to the unamortized balance, or -\$293 million.

Because experience changes normally occur every year, the only payment that would actually be made under this particular combined schedule is the -\$285 million on October 1, 2003. A new combined amortization schedule covering FY01, FY02, and the new unfunded liability caused by experience changes in FY03 is determined as follows.

First, the combined FY01 and FY02 amortization base of -\$5,566 million is increased by one year's interest and credited with the payment of -\$285 million. The remaining unamortized balance as of October 1, 2002 is -\$5,629 million $[-5,629 = (-5,566 \times 1.0625) + 285]$. This amount (-\$5,629) is then combined with an assumed FY03 experience change of +\$10,300 million, resulting in a new combined unamortized balance of \$4,671 million $(4,671 = -5,629 + 10,300)$. This combined amortization base of \$4,671 million is then amortized over a new combined amortization period of 29.43 years, which is equal to the weighted average of the 28.38 years remaining for the old schedule and the 30-year period for the FY03 change. The new combined amortization period is calculated as follows:

$$\frac{(5,629 \times 28.38) + (10,300 \times 30)}{5,629 + 10,300} = 29.43 \text{ years}$$

The October 1, 2004, payment to amortize the new combined base of \$4,671 million is \$239 million and is determined by means of the following procedure:

1. Bring forward unamortized balance with interest to September 30, 2004:

$$\$4,671 \text{ million} \times (1 + i) = \$4,963 \text{ million}$$

2. Calculate annuity due factor for 29.43 years at interest rate $j = [(1 + i) \div (1 + s)] - 1$:

$$= 20.776596$$

3. Divide unamortized balance by annuity factor to get annual payment:

$$\$4,963 \text{ million} \div 20.776596 = \$239 \text{ million}$$

This is the payment to amortize the combined experience changes for all three years.

Table N-1 shows the schedule of amortization payments for the experience changes in FY01; FY01 and FY02 combined; and FY01, FY02, and FY03 combined.

TABLE N-1

Projected Amortization Payments for Experience Changes
(Amounts in Millions)

<u>Date</u>	<u>Payment on the FY01 Experience Change</u>	<u>Payment on the Combined FY01 and FY02 Experience Change</u>	<u>Payment on the Combined FY01, FY02 and FY03 Experience Change</u>
10/1/02	\$ -697		
10/1/03	-721	\$ -285	
10/1/04	-746	-295	\$ 239
10/1/05	-773	-305	247
10/1/06	-800	-316	256
10/1/07	-828	-327	265

Changes in Actuarial Assumptions

The third type of change in the unfunded liability is due to changes in actuarial assumptions. These assumption changes are customarily made every three to five years, although they could be more or less frequent. They are amortized by the same method used for experience gains and losses and for benefit changes, i.e., by means of a combined schedule with initial 30-year payments that increase at the rate of the assumed basic pay scale increases.

If changes in economic assumptions include a change in either the valuation interest rate or the assumed basic pay scale increase, the amortization payments that have already been scheduled for all three categories of change in the unfunded liability will be modified. Specifically, new series of payments will be determined to amortize the current amortization bases over their remaining periods, with payments that increase with the new basic pay scale assumption and are computed using the new valuation interest rate. The following example illustrates how this is done.

Suppose that on October 1 of a particular fiscal year, an amortization base is \$27,405 million, calculated immediately after the scheduled amortization payment is made. Say the remaining amortization period is 26 years. Also suppose that the valuation interest rate is changed to 6.0 percent and that the basic pay scale increase is changed to 3.0 percent.

The initial, revised payment, to be made on the following October 1, is determined by the following procedure:

1. Bring forward unamortized balance with interest to September 30 of next year:

$$\$27,405 \text{ million} \times (1 + i) = \$29,049 \text{ million}$$

where in this case, $i = .06$

2. Calculate annuity due factor for 26 years at interest rate $j = [(1 + i) \div (1 + s)] - 1$:

$$= 18.583906$$

where $i = .06$ and $s = .03$

3. Divide unamortized balance by annuity factor to get annual payment:

$$\$29,049 \text{ million} \div 18.583906 = \$1,563 \text{ million}$$

The second and succeeding payments will increase at the rate of 3.0 percent per year, which is the new basic pay scale increase. The \$27,405 million amortization base will be credited with 6.0 percent interest. This new series of amortization payments will reduce the \$27,405 million amortization base to zero at the end of the 26th year.

CALCULATION OF THE OCTOBER 1, 2002, UNFUNDED LIABILITY PAYMENT

The following pages display the calculation of the October 1, 2002, unfunded liability payment based on the September 30, 2001, valuation results and on amortization methods and assumptions approved by the DoD Retirement Board of Actuaries. In order to avoid a projected shortfall in the Military Retirement Fund, the Board determined that, beginning with the FY98 payment, the total amortization period of the initial unfunded liability would be decreased from 60 to 50 years.

TABLE N-2
TOTAL UNFUNDED LIABILITY PAYMENT
OCTOBER 1, 2002

(\$ in billions)

Payment for:

a.	Initial unfunded liability	\$45.096
b.	Changes in actuarial assumptions	\$(10.059)
c.	Changes in benefits	\$0.661
d.	Experience gains and losses	\$(17.770)
Total payment		\$17.928

TABLE N-3

CALCULATION OF OCTOBER 1, 2002,
PAYMENT ON INITIAL UNFUNDED LIABILITY (UFL)

(\$ in billions)

1.	Unamortized balance of initial UFL (10/1/00 balance \times 1.0625)	9/30/01	\$974.873
2.	Payment on UFL	10/1/01	\$43.571
3.	Unamortized balance of initial UFL (1. - 2.)	10/1/01	\$931.302
4.	Balance on 9/30/02 (3. \times 1.0625)	9/30/02	\$989.509
5.	Number of Annual Payments Remaining	9/30/02	32
6.	Value of an annuity due for remaining amortization period at interest rate equal to $(1.0625 \div 1.035) - 1$		21.942326
7.	Payment on initial UFL due 10/1/02 (4. \div 6.)		\$45.096

TABLE N-4

CALCULATION OF OCTOBER 1, 2002,
PAYMENT ON UNFUNDED LIABILITY (UFL)
RESULTING FROM ASSUMPTION CHANGES

(\$ in billions)

1. Unamortized balance of UFL due to assumption changes (10/1/00 balance \times 1.0625)	9/30/01	\$(164.643)
2. Payment on UFL	10/1/01	\$(9.862)
3. Unamortized UFL balance after payment (1. - 2.)	10/1/01	\$(154.781)
4. Additional (new) UFL	9/30/01	\$1.673
5. Unamortized UFL balance due to assumption changes (3. + 4.)	10/1/01	\$(153.108)
6. Balance on 9/30/02 (5. \times 1.0625)	9/30/02	\$(162.677)
7. Number of years in prior amortization schedule		21.58
8. Remaining number of years in prior amortization schedule (7. - 1)		20.58
9. Number of years in new amortization schedule (absolute values used for all numbers) [(3. \times 8.) + (4. \times 30)] \div (3. + 4.)		20.68
10. Value of an annuity due for remaining amortization period at interest rate equal to (1.0625 \div 1.035) - 1		16.171758
11. Payment on UFL due to assumption changes (6. \div 10.)	10/1/02	\$(10.059)

TABLE N-5

CALCULATION OF OCTOBER 1, 2002,
PAYMENT ON UNFUNDED LIABILITY (UFL)
RESULTING FROM BENEFIT CHANGES

(\$ in billions)

1. Unamortized UFL balance due to benefit changes (10/1/00 balance x 1.0625)	9/30/01	\$9.647
2. Payment on UFL	10/1/01	\$0.472
3. Unamortized UFL balance after payment (1. - 2.)	10/1/01	\$9.175
4. Additional (new) UFL due to benefit changes	9/30/01	\$3.428
5. Unamortized UFL balance due to benefit changes (3. + 4.)	9/30/01	\$12.603
6. Balance on 9/30/02 (5. x 1.0625)	9/30/02	\$13.391
7. Total number of years of prior amortization schedule		28.72
8. Remaining number of years of prior amortization schedule (7. - 1)		27.72
9. Total number of years of new amortization schedule (absolute values used for all numbers) [(3. x 8.) + (4. x 30)] ÷ (3. + 4.)		28.34
10. Value of an annuity due for remaining amortization period at interest rate equal to $(1.0625 \div 1.035) - 1$		20.261251
11. Payment on UFL due to benefit changes (6. ÷ 10.)	10/1/02	\$0.661

TABLE N-6

CALCULATION OF OCTOBER 1, 2002,
PAYMENT ON UNFUNDED LIABILITY (UFL)
RESULTING FROM EXPERIENCE GAINS AND LOSSES

(\$ in billions)

1. Unamortized UFL balance due to experience gains and losses (10/1/00 balance \times 1.0625)	9/30/01	\$(284.546)
2. Payment on UFL	10/1/01	\$(17.134)
3. Unamortized UFL balance after payment (1. - 2.)	10/1/01	\$(267.412)
4. Additional (new) UFL	9/30/01	\$(0.847)
5. Unamortized UFL balance due to experience gains and losses (3. + 4.)	10/1/01	\$(268.259)
6. Balance on 9/30/02 (5. \times 1.0625)	9/30/02	\$(285.025)
7. Number of years in prior amortization schedule		21.42
8. Remaining number of years in prior amortization schedule (7. - 1)		20.42
9. Number of years in new amortization schedule (absolute values used for all numbers) [(3. \times 8.) + (4. \times 30)] \div (3. + 4.)		20.45
10. Value of an annuity due for remaining amortization period at interest rate equal to $(1.0625 \div 1.035) - 1$		16.039640
11. Payment on UFL due to experience gains and losses (6. \div 10.)	10/1/02	\$(17.770)